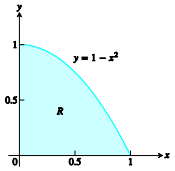
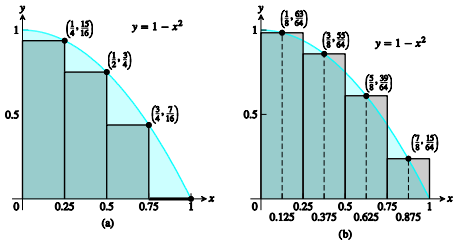
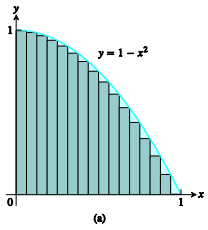
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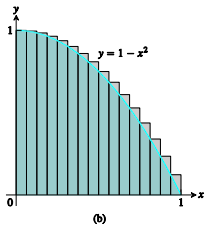


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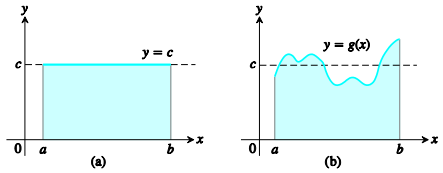


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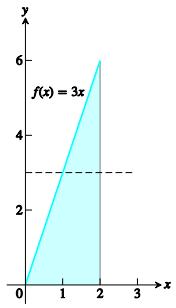




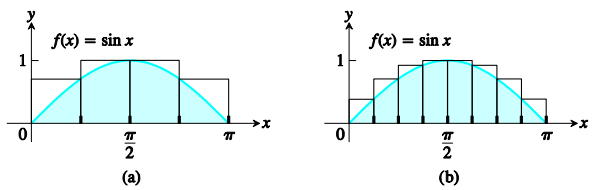
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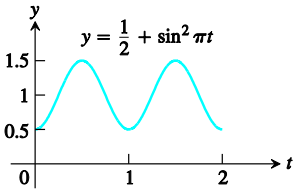
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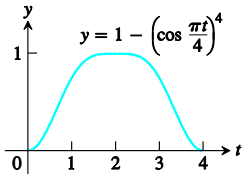
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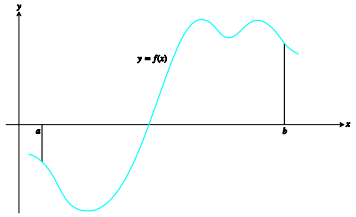
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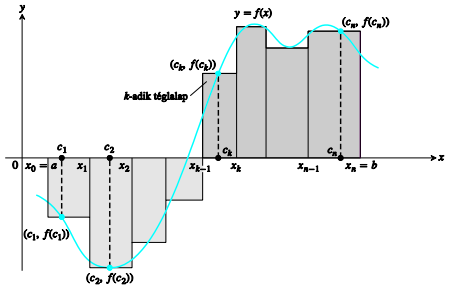
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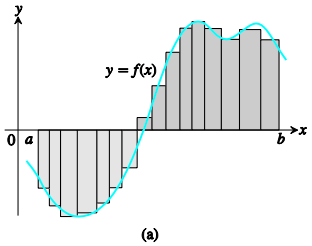
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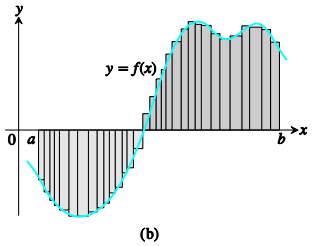


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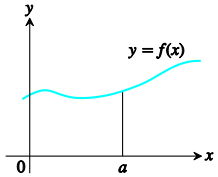


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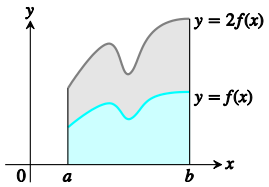




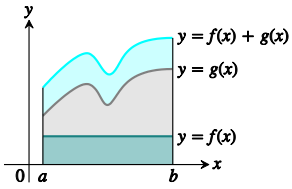
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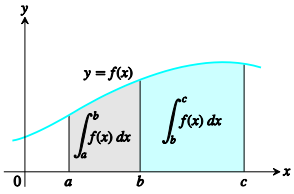
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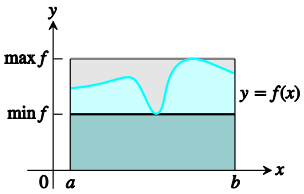
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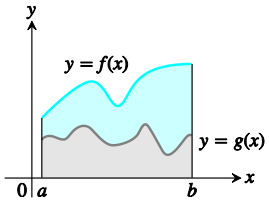
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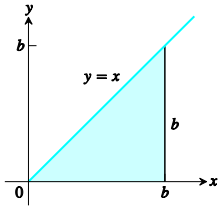
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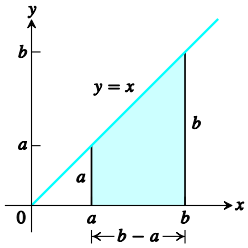
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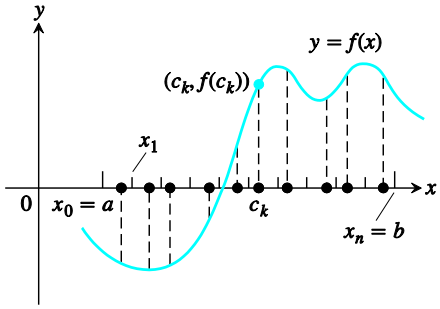
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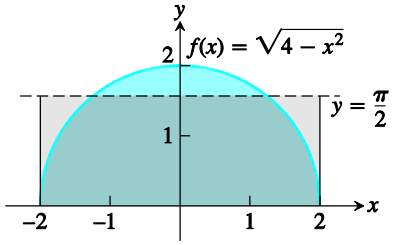
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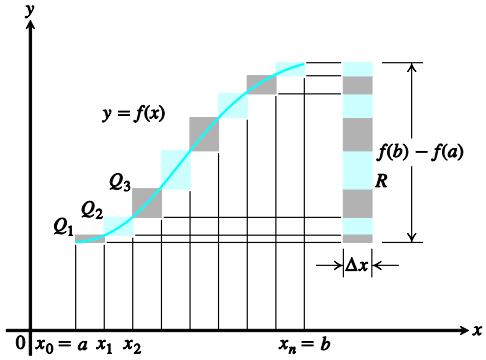
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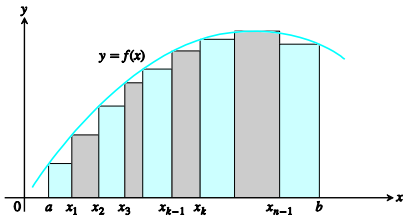
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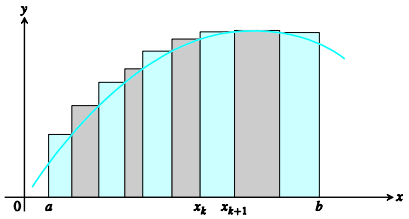


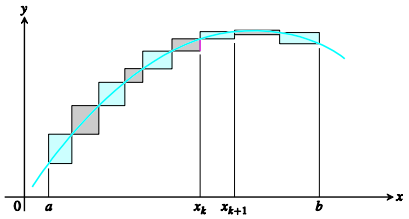
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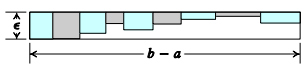


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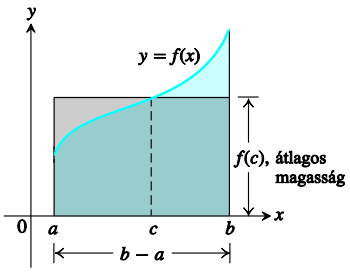




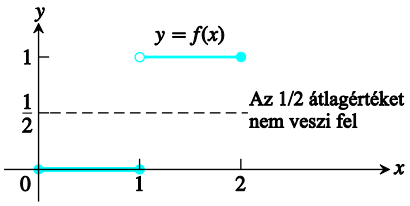




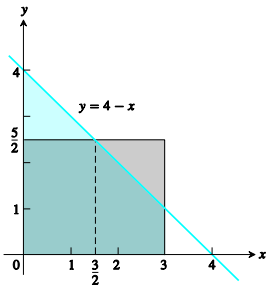
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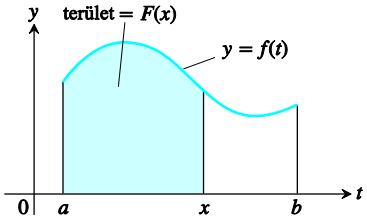
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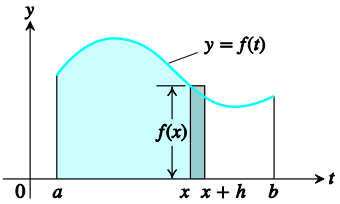
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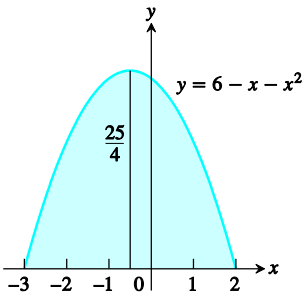
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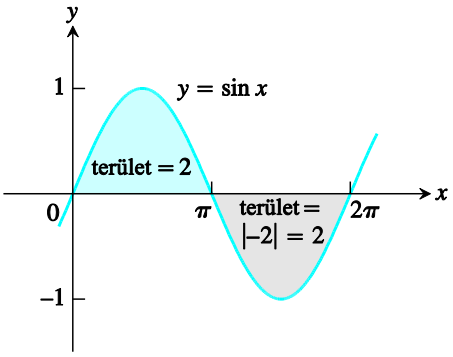
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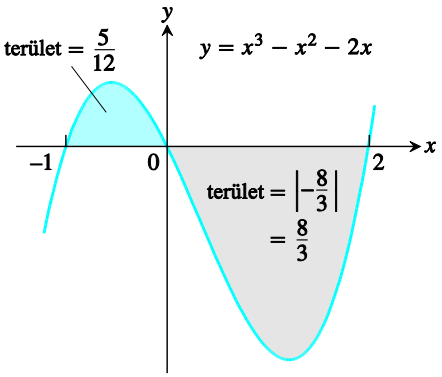
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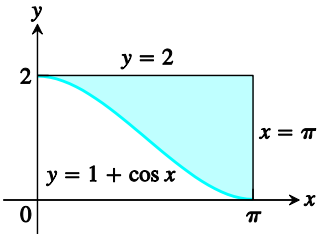
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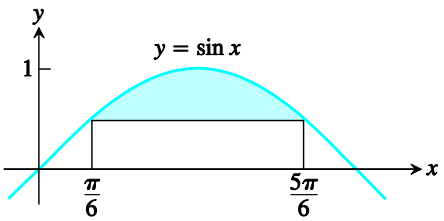
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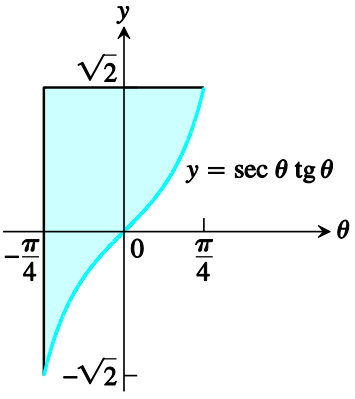
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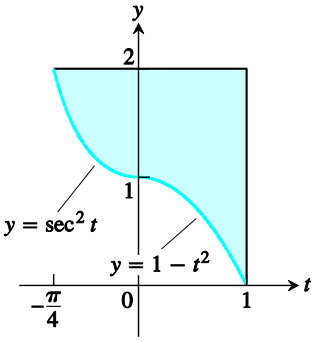
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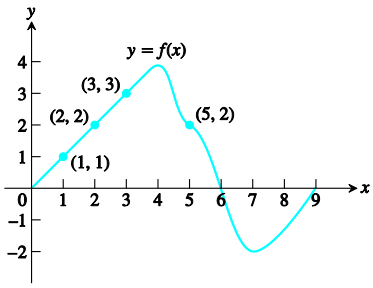
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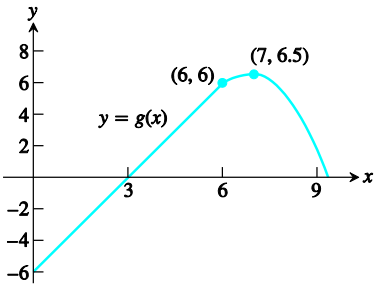
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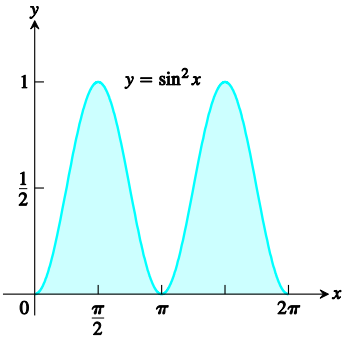
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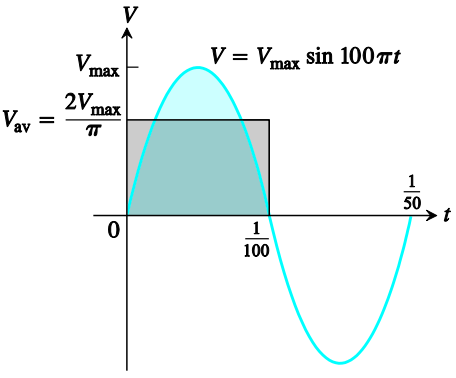
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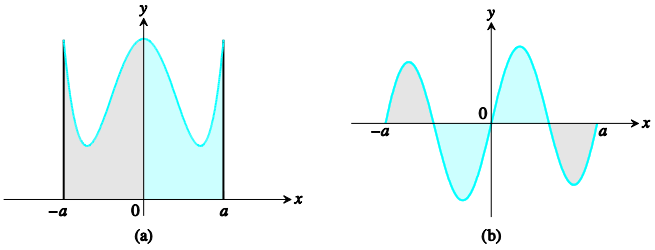
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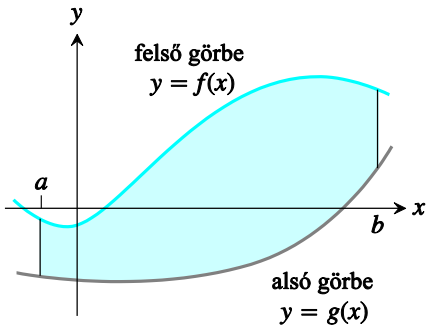
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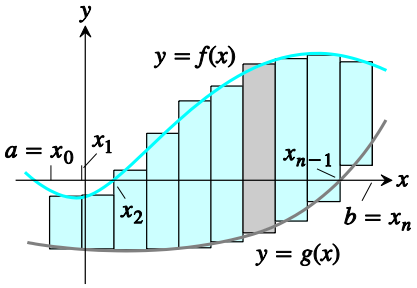
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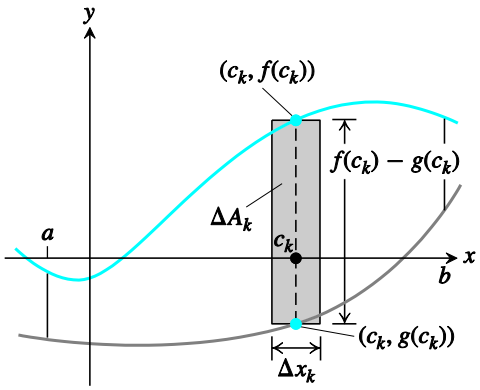
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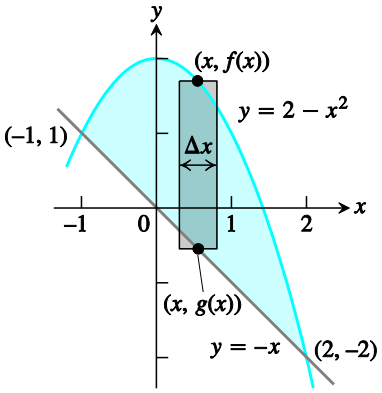
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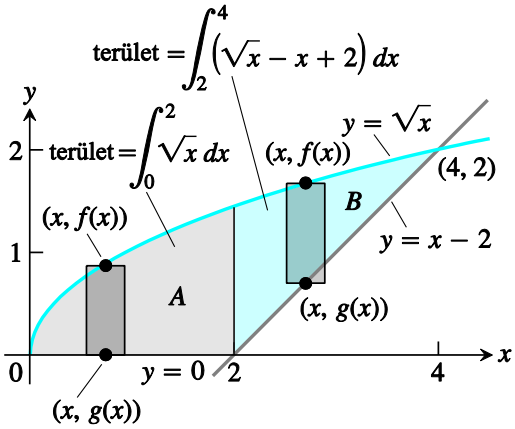
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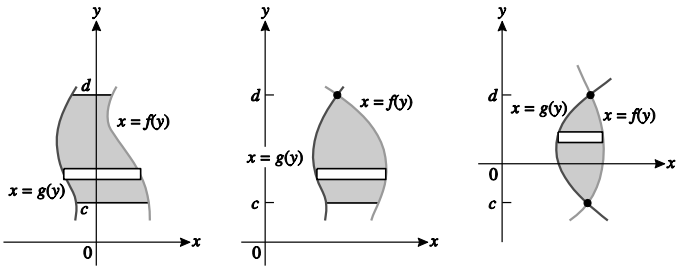
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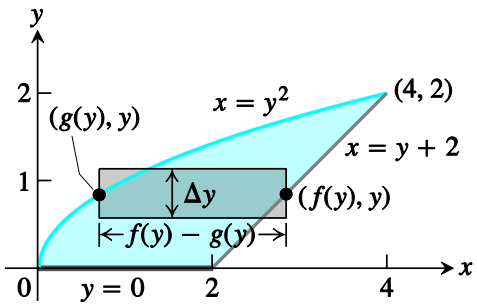
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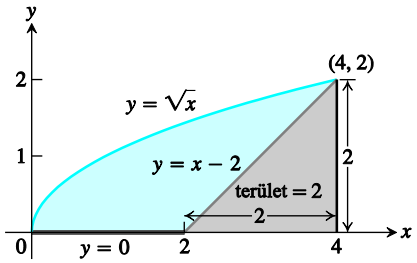
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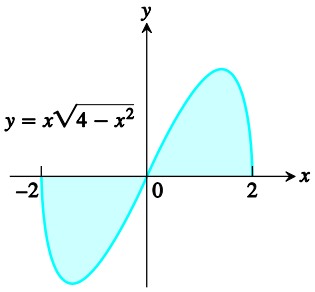
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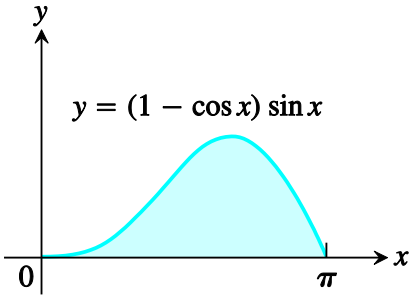
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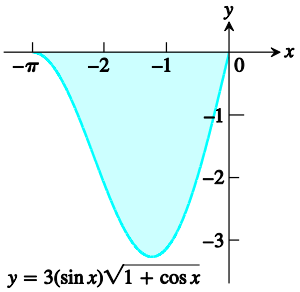
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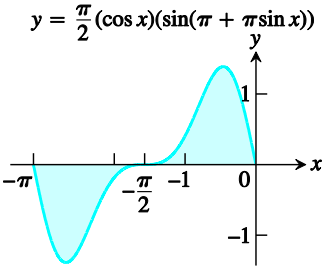
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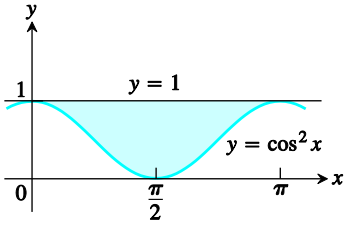
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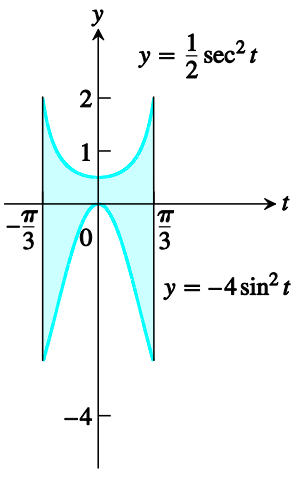
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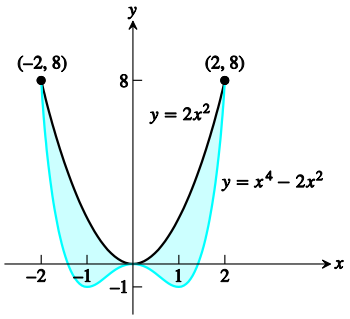
62.o.29.



62.o.30.

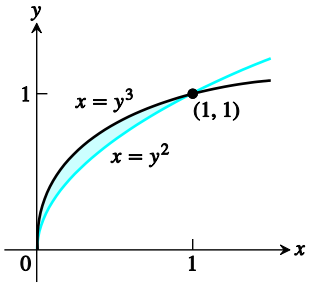


62.o.31.

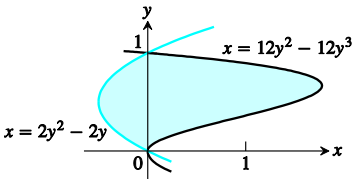


NEM MÉRETARÁNYOS

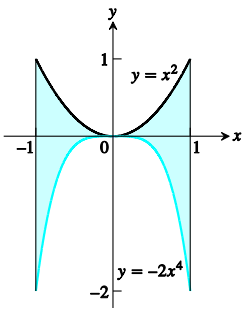
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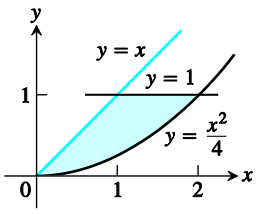
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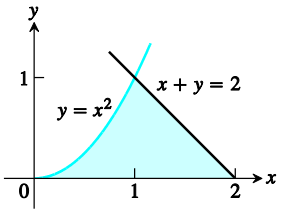
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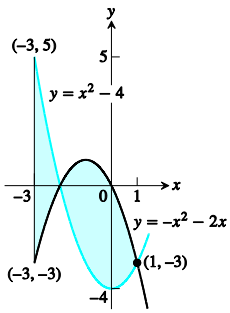
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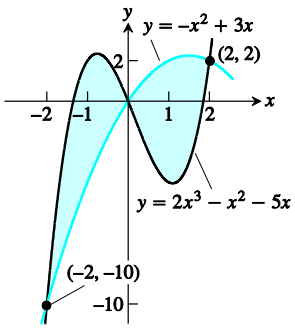
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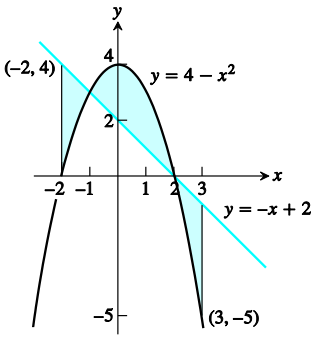
62.o.37.



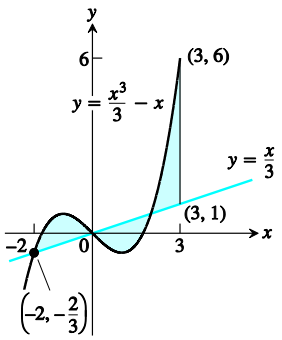
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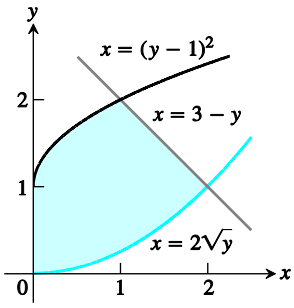
62.o.39.



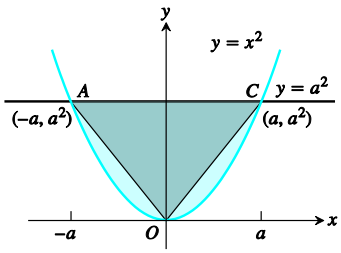
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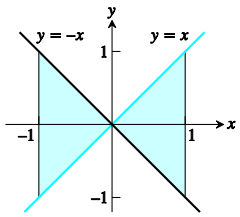
63.o.78.



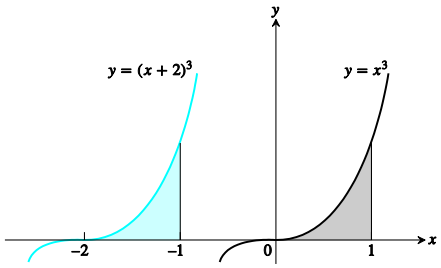
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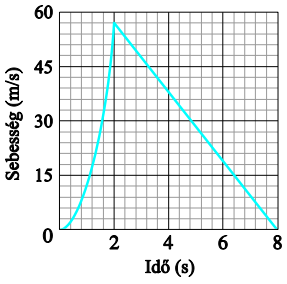
63.o.81.



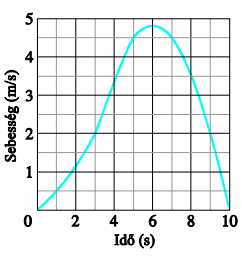
64.o.



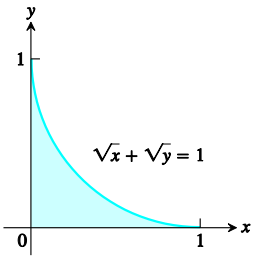
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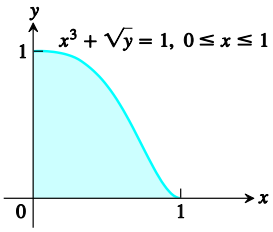
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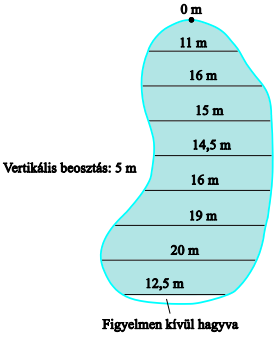
66.o.17.



66.o.18.

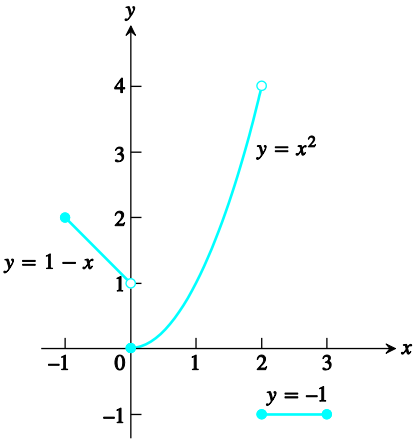


67.o.85.

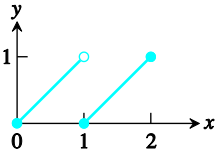


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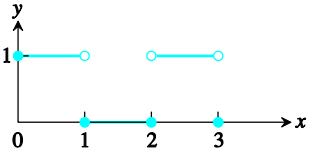
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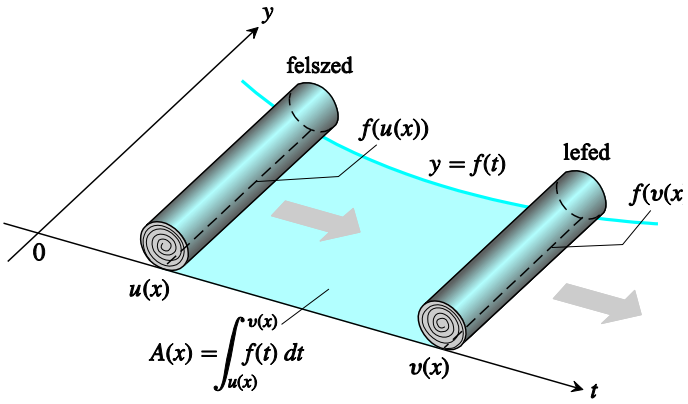
69.o.17.



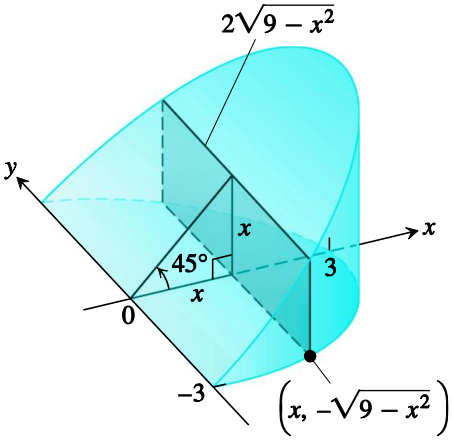
69.o.18.



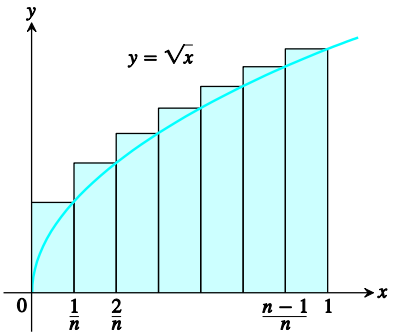
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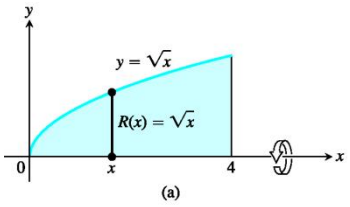
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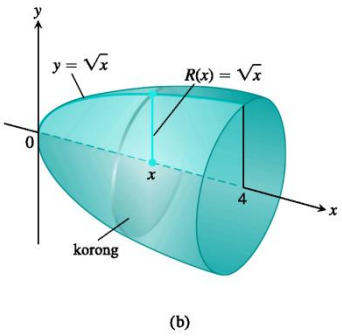


70.o.

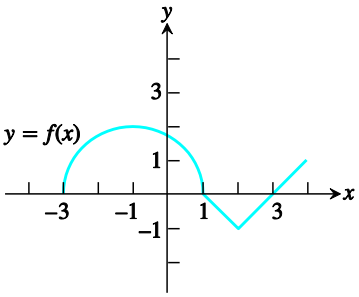


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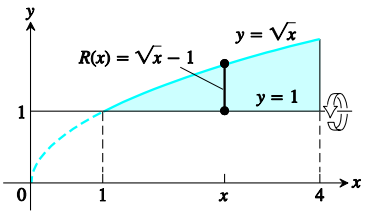


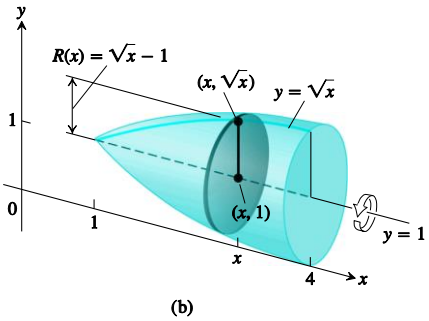


71.o.29.

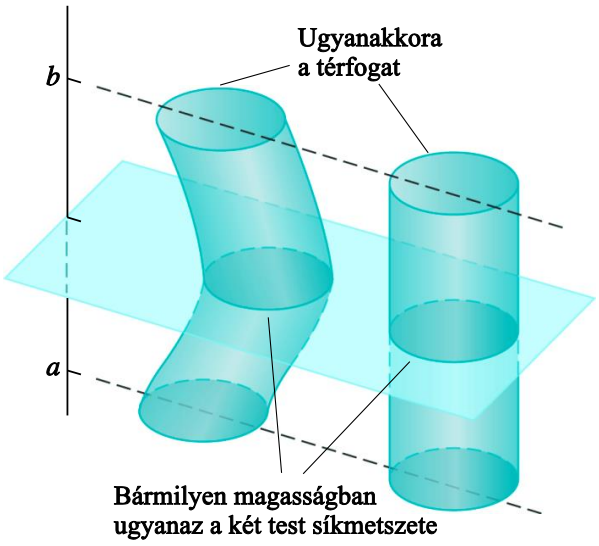


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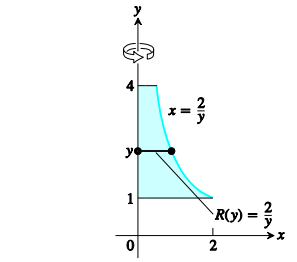




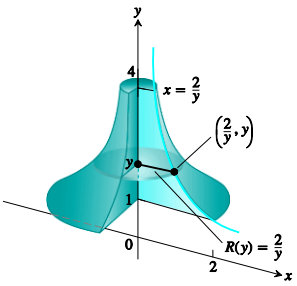
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6.11.

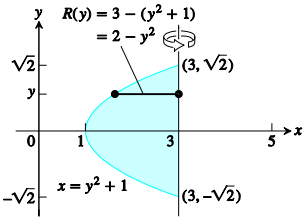


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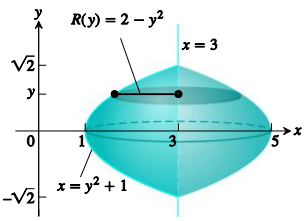


(b)

6.12.

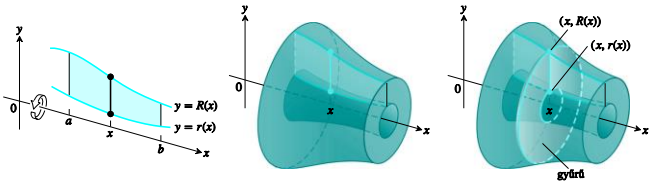


(a)

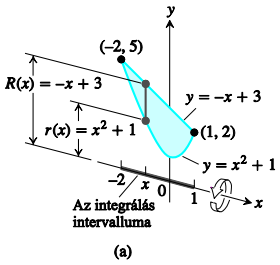


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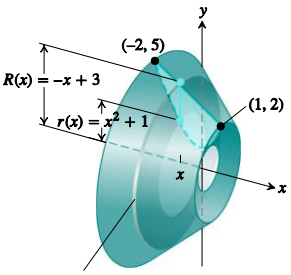
6.13.



6.14.

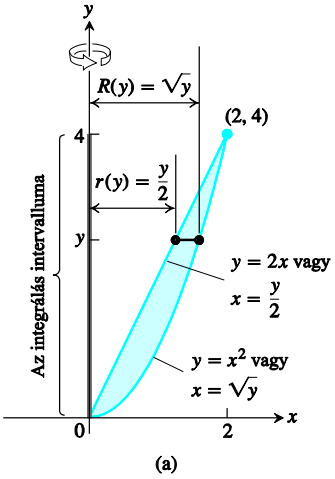


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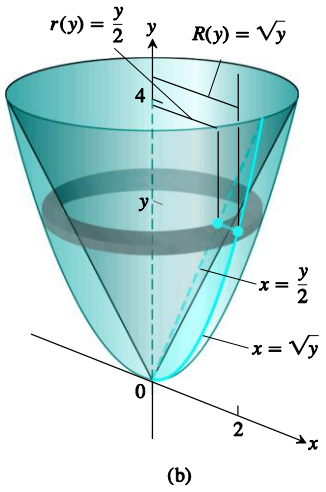


(b)

6.15.

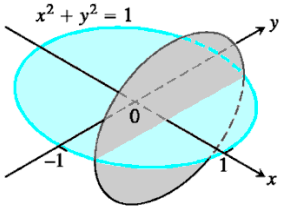


(a)

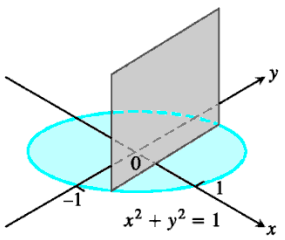


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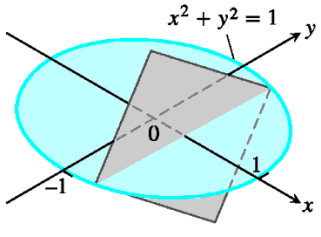
82.o.1.a



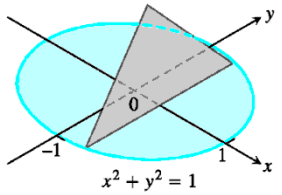
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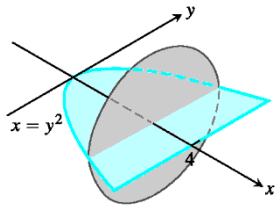
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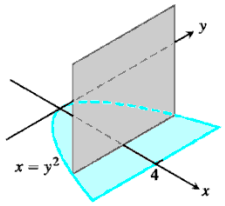
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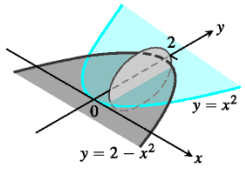
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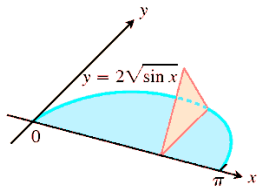
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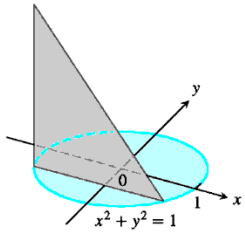
82.o.4.



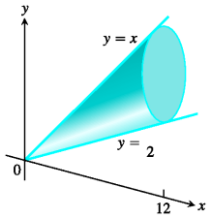
83.o.7.a.



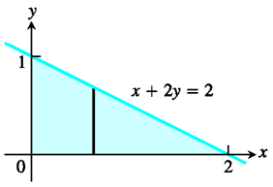
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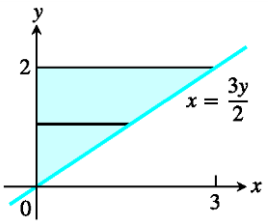
83.o.12.



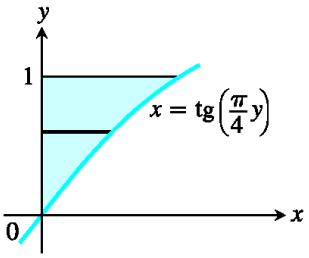
83.o.13.



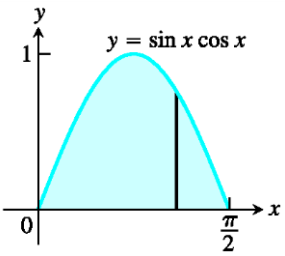
83.o.14.



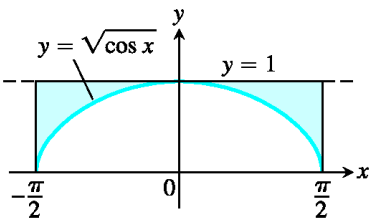
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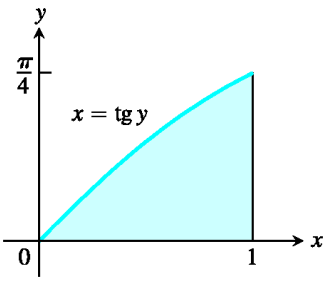
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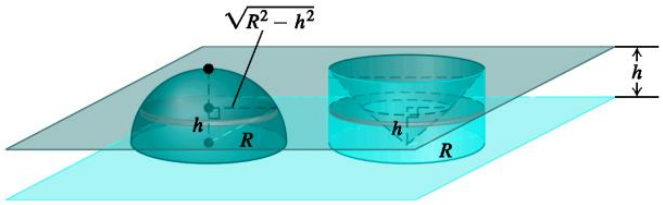
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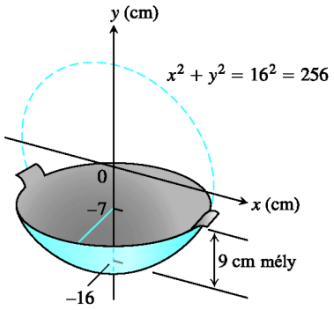
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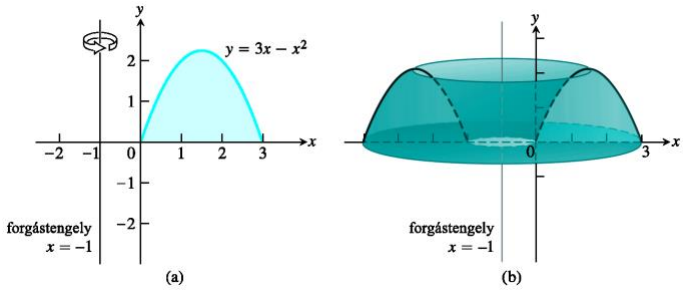
85.o.53.



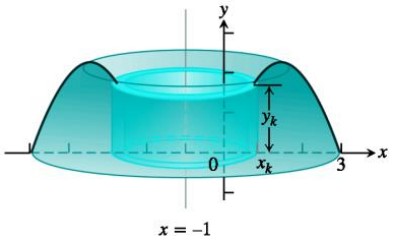
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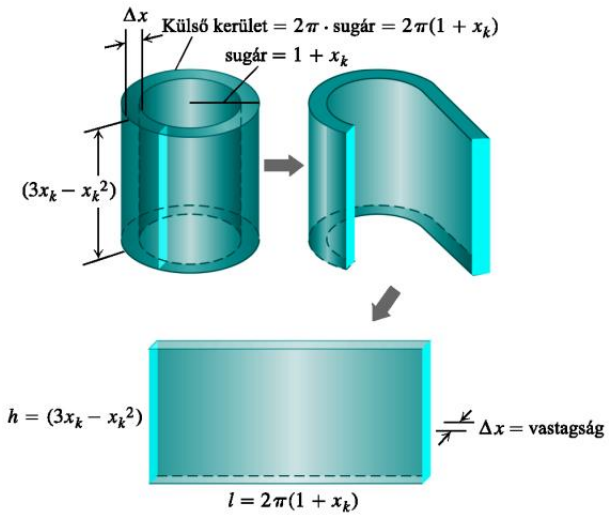
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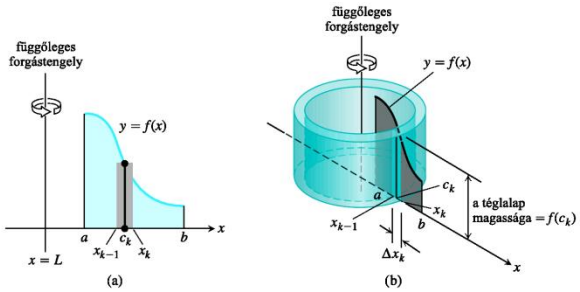
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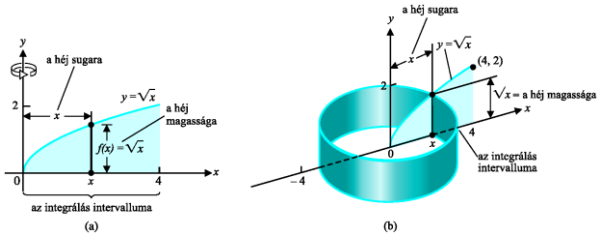
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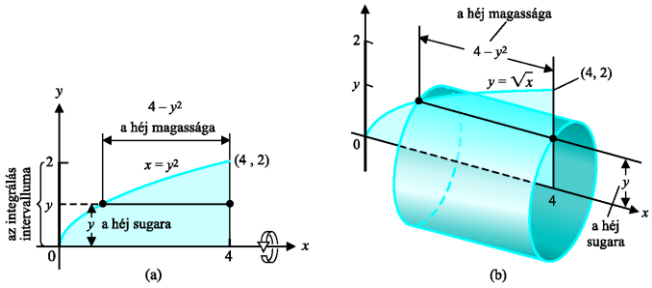
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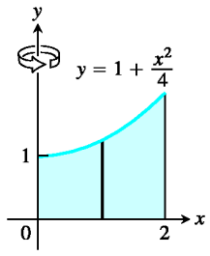
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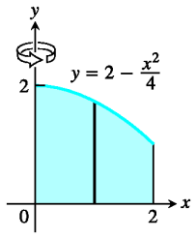
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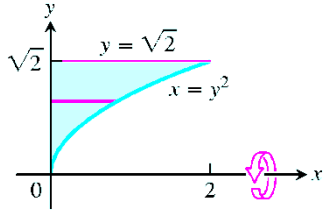
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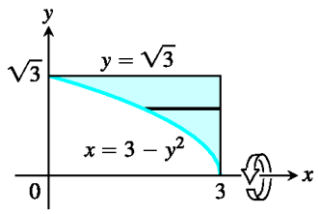
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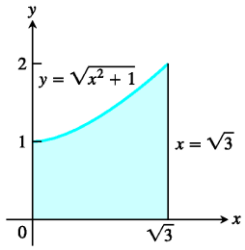
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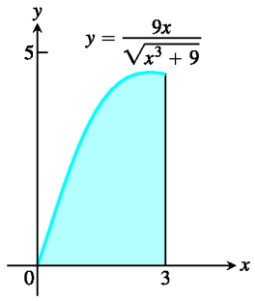
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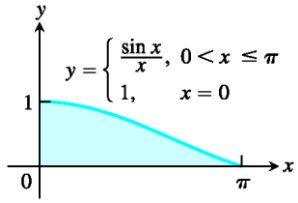
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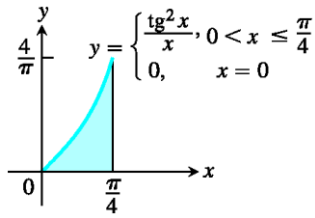
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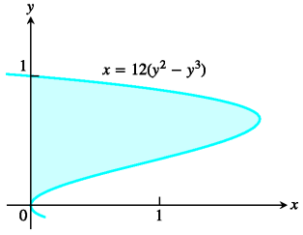
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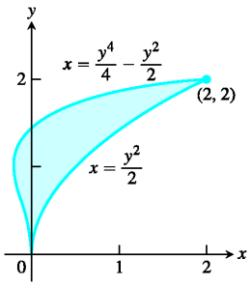
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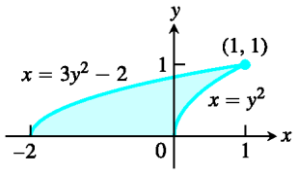
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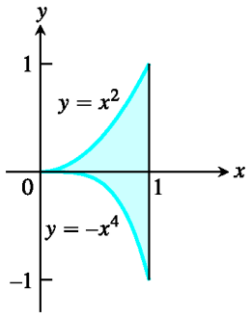
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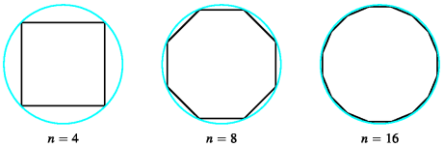
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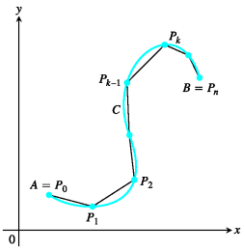
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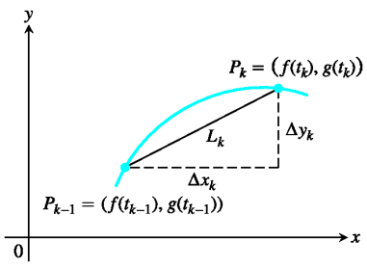
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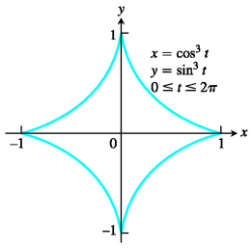
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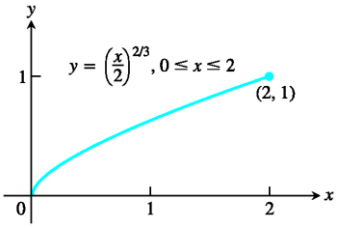
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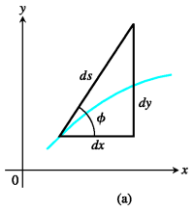
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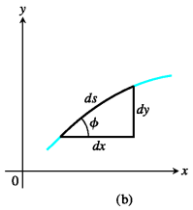


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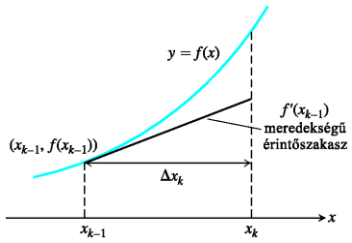


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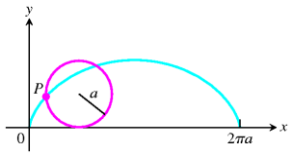




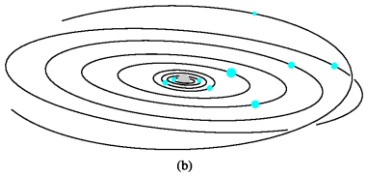
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99.o.30.



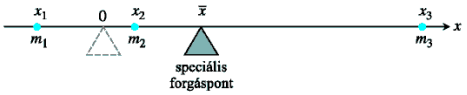
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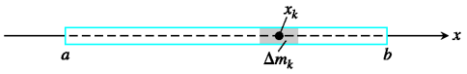
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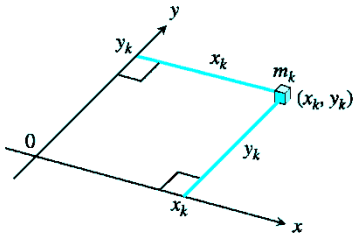
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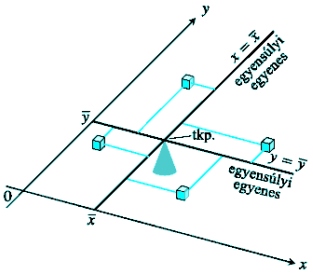
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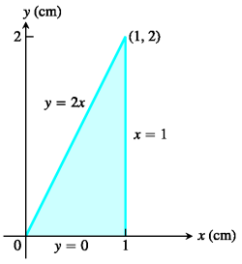
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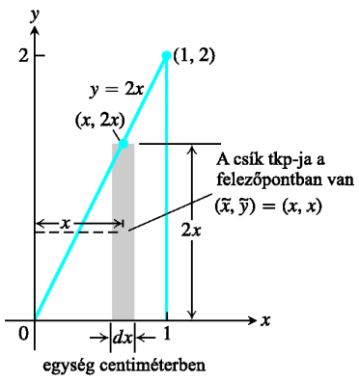
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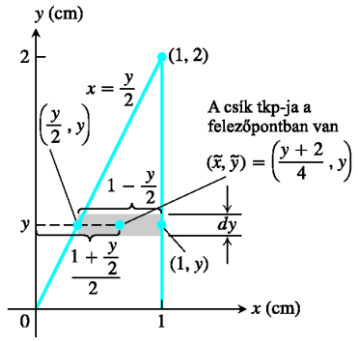
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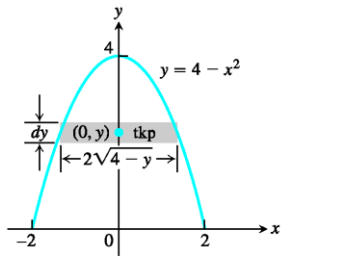
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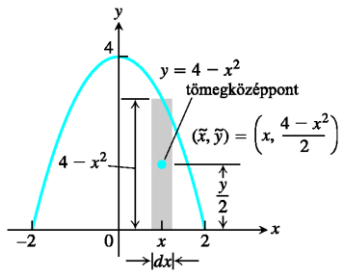
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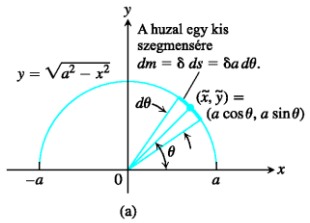


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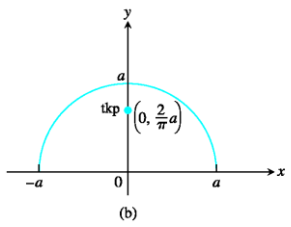


(b)

6.39.

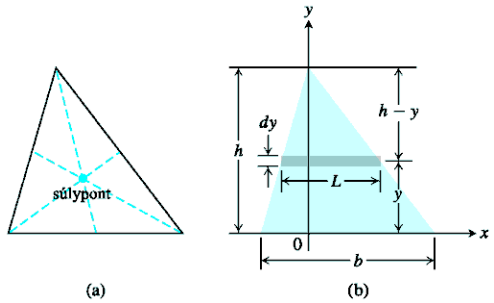


(a)



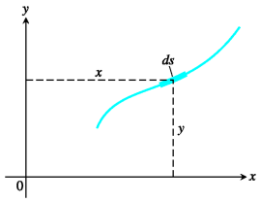
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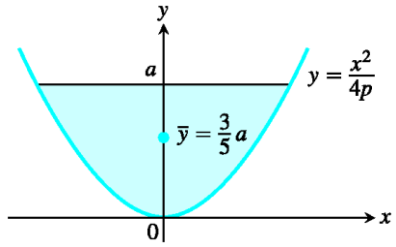


(a) (b)

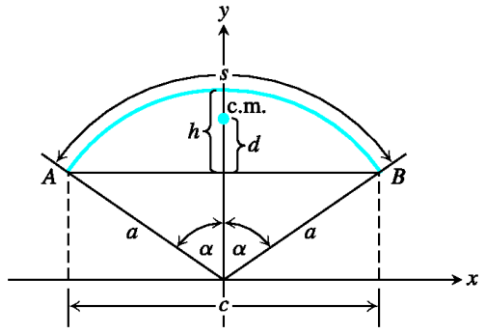
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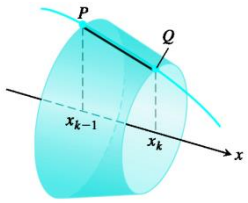
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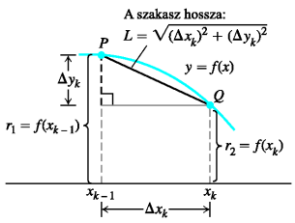
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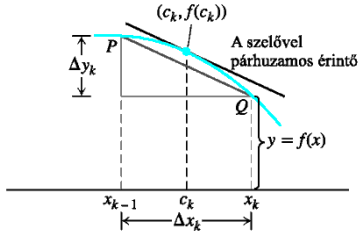
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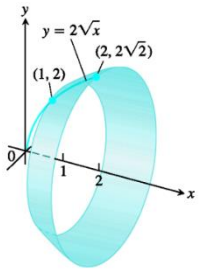
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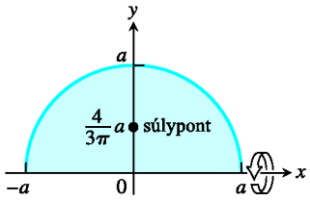
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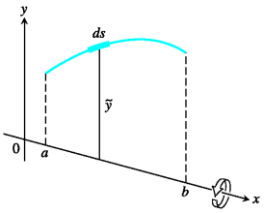
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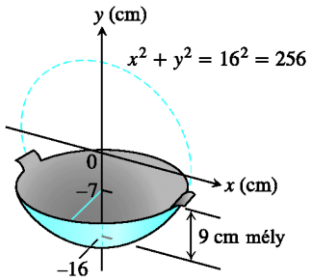
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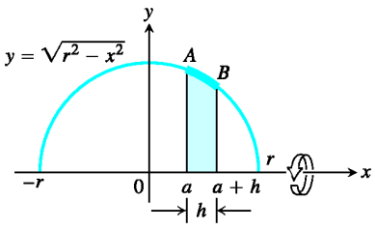
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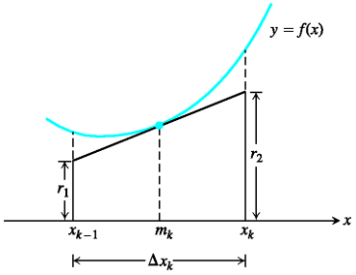
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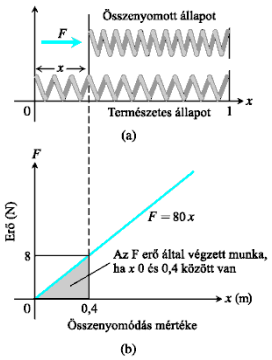
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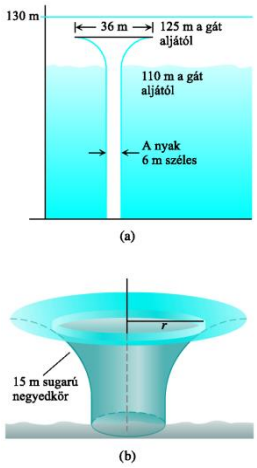
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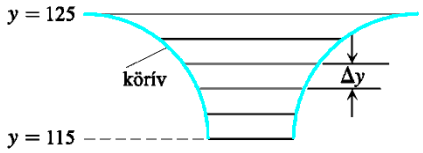
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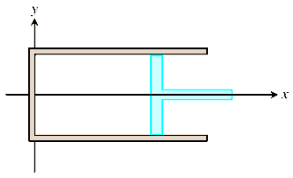
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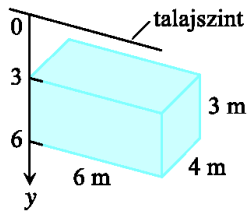
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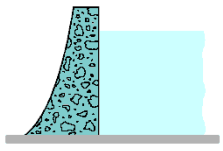
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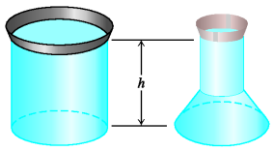
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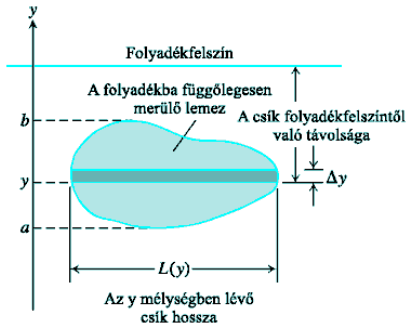
6.64.



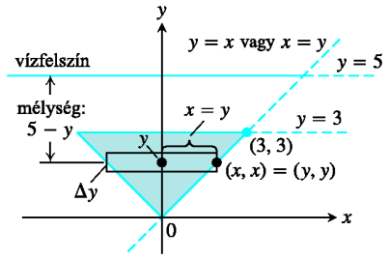
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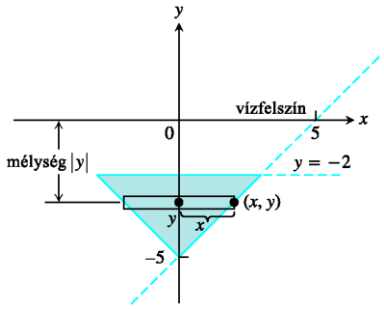
6.66.



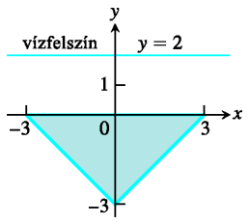
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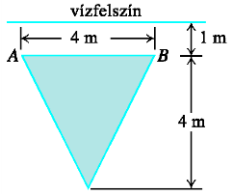
131.o.1.



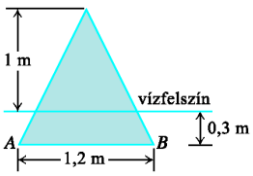
131.o.2.



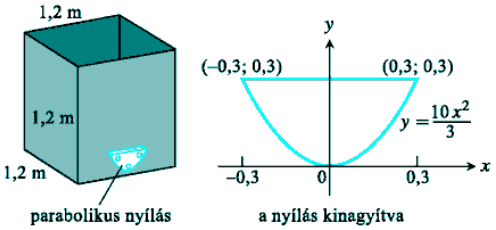
131.o.5.



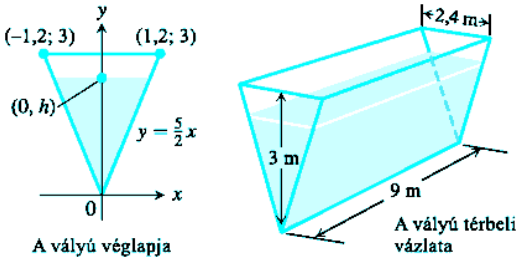
131.o.6.



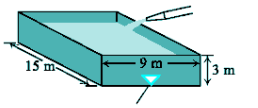
132.o.11.

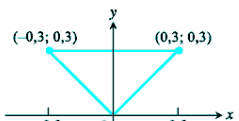


132.o.13.

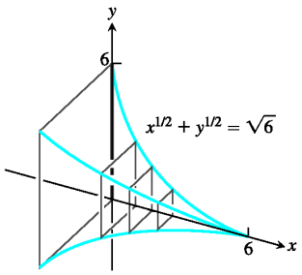


132.o.14.

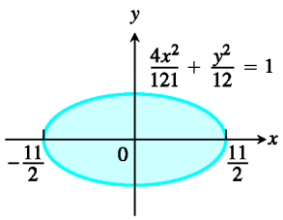




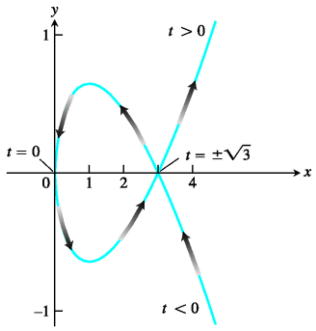
134.o.4.



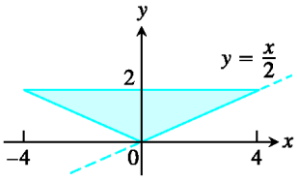
134.o.16.



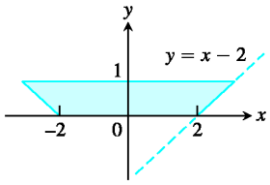
134.o.24.



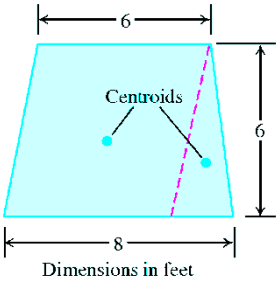
135.45.



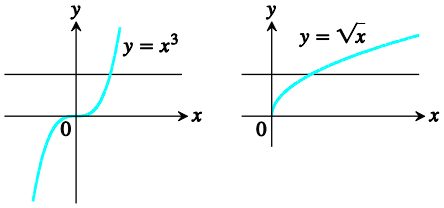
135.46.



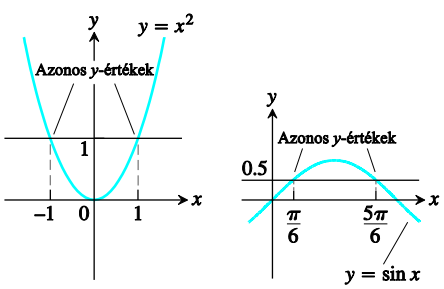
136.o.50.



7.1.

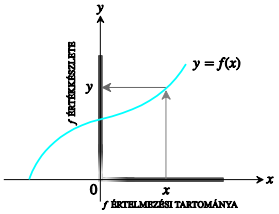


Injektív függvények: a grafikon a vízszintes egyeneseket legfeljebb egy pontban metszi.

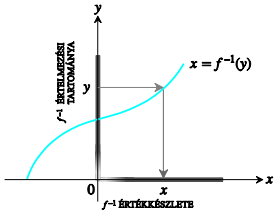


Nem injektív függvények: a grafikonok némelyik vízszintes egyenest több pontban metszik.

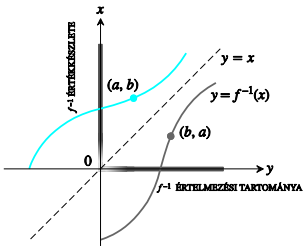
7.2.



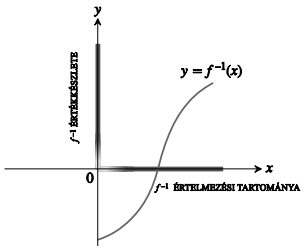
(a) Az f függvény x helyen felvett értékét megkapjuk, ha x-től függőlegesen f grafikonjáig haladunk, majd az y-tengely felé fordulunk.



(b) Az f^{-1} függvény grafikonja f grafikonja alapján az x-, illetve y-értékek felcserélésével kapható meg. Ha azt az x-et keressük, amely y-t adta, akkor az y-tengely y pontjából vízszintesen a grafikonig, onnan pedig függőlegesen az x-tengelyig haladunk. Az f függvény értelmezési tartománya az f^{-1} függvény értékkészlete, f értékkészlete pedig f^{-1} értelmezési tartománya.

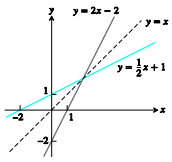


(c) Ha f^{-1} grafikonját a szokásos módon akarjuk ábrázolni, akkor előbb f grafikonját az $x = y$ egyenletű egyenesre tükrözzük,

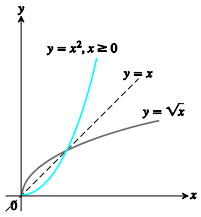


(d) majd felcseréljük az x és y betűket. Így megkapjuk f^{-1} „normális” grafikonját, az f^{-1} függvény értékei ekkor már y-ok, nem pedig x-ek.

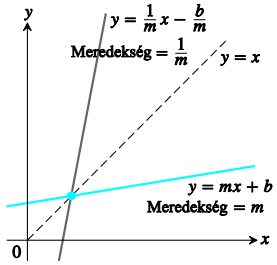
7.3.



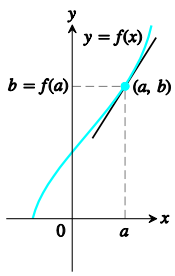
7.4.

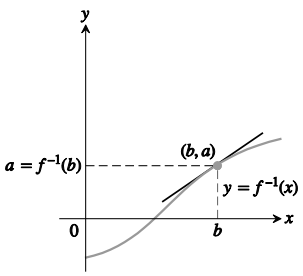


7.5.



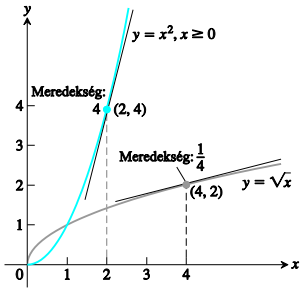
7.6.



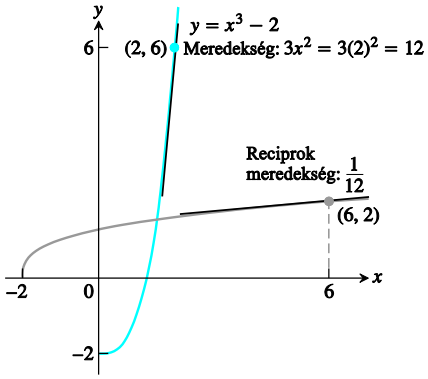


A meredekségek egymás reciprokai: $(f^{-1})'(b) = \dfrac{1}{f'(a)}$ vagy $(f^{-1})'(b) = \dfrac{1}{f'(f^{-1}(b))}$

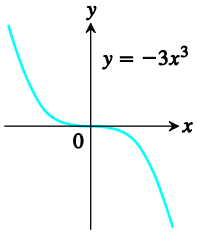
7.7.



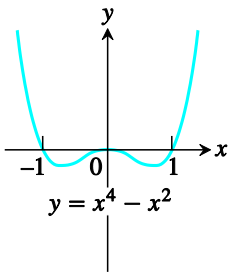
7.8.



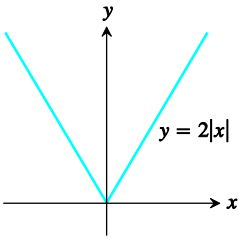
145.o.1.



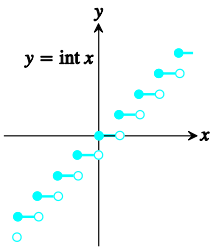
145.o.2.



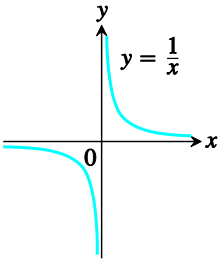
145.o.3.



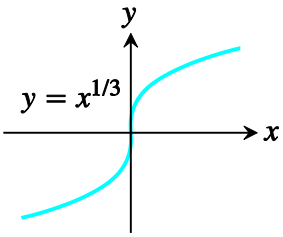
145.o.4.



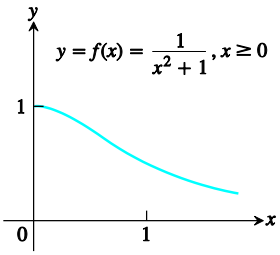
145.o.5.



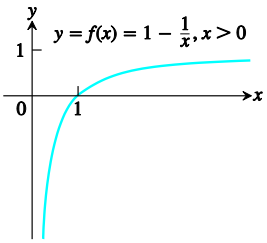
145.o.6.



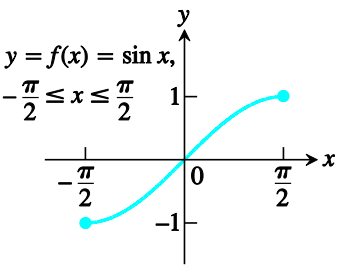
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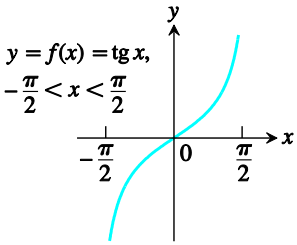
145.o.8.



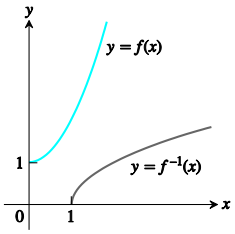
146.o.9.



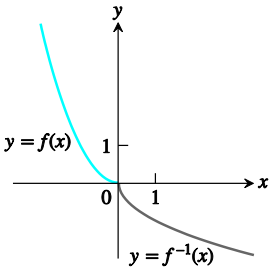
146.o.10.



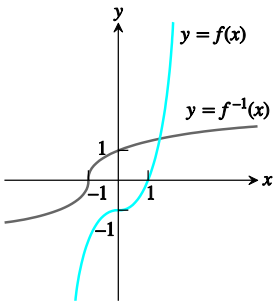
146.o.13.



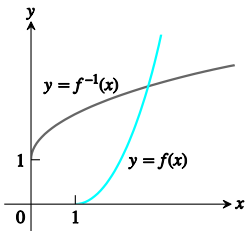
146.o.14.



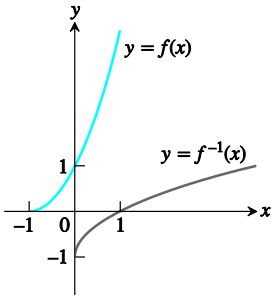
146.o.15.



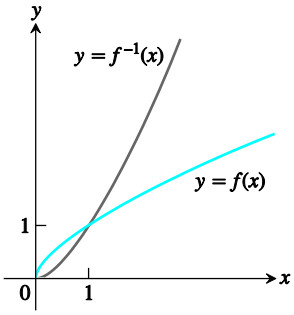
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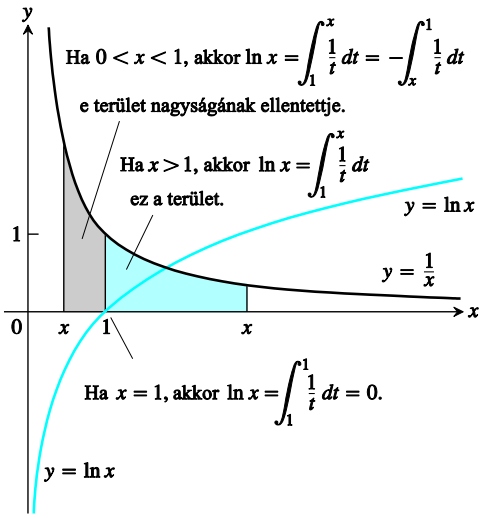
146.o.17.



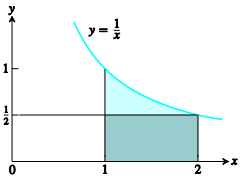
146.o.18.



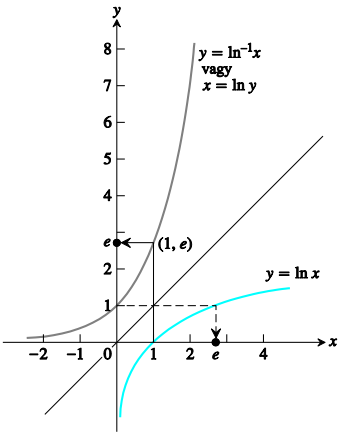
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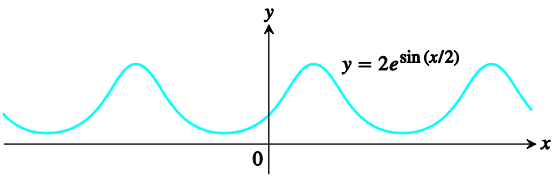
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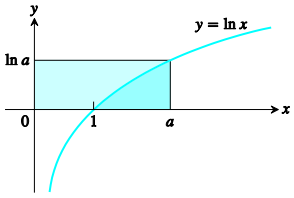
7.11.



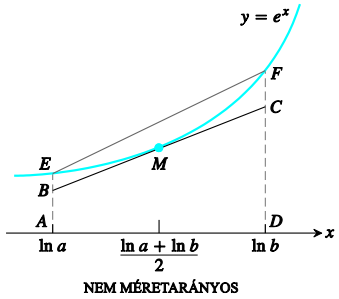
164.o.68.



164.o.81.

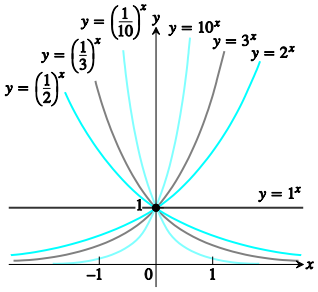


165.o.82.

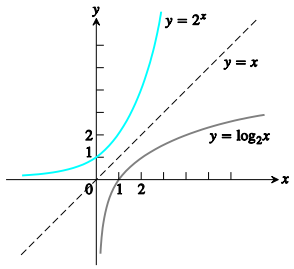


NEM MÉRETARÁNYOS

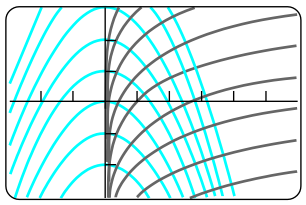
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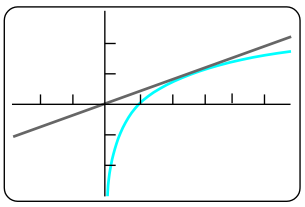
7.13.



171.o.89.

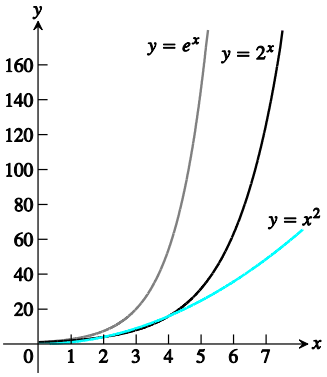


171.o.92.

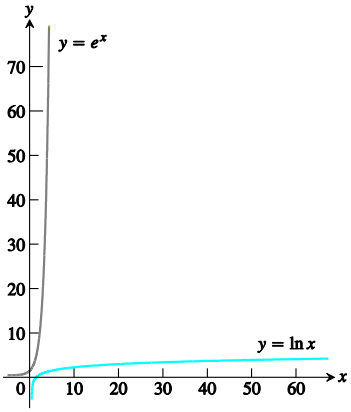


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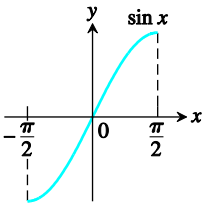
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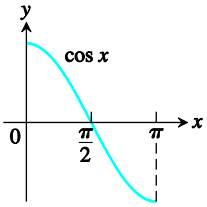
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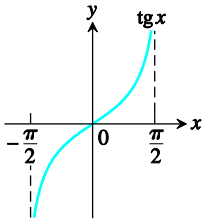
185.o.1.



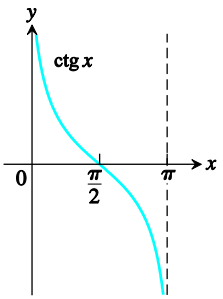
185.o.2.



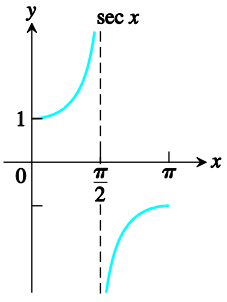
185.o.3.



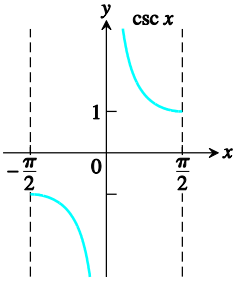
185.o.4.



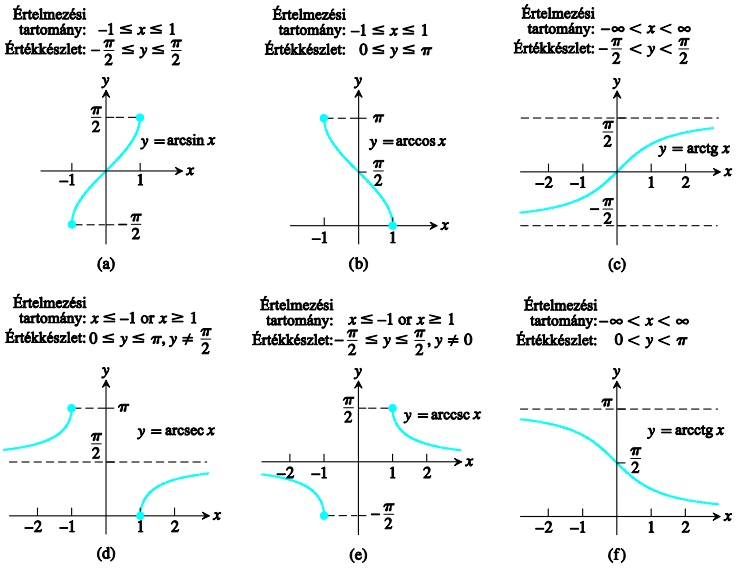
186.o.5.



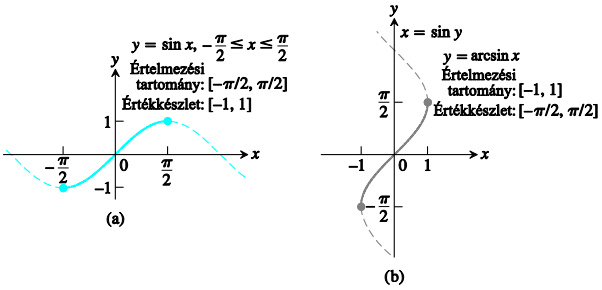
186.o.6.



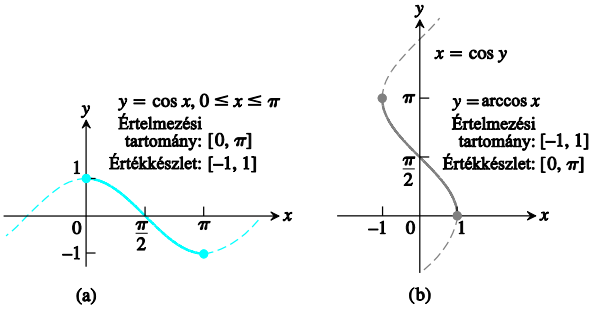
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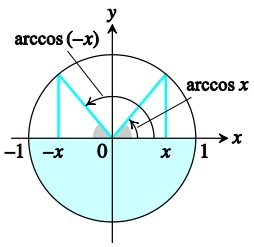
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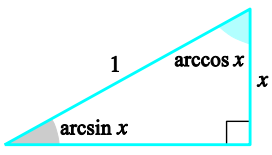
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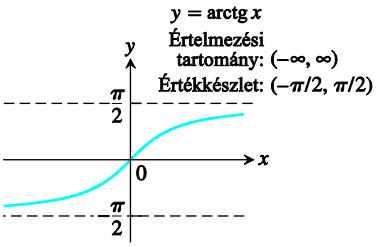
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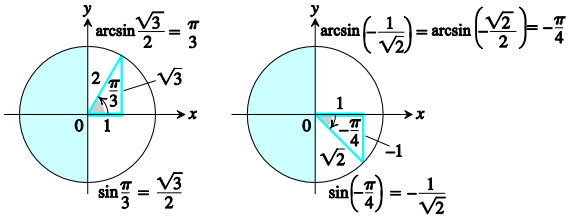
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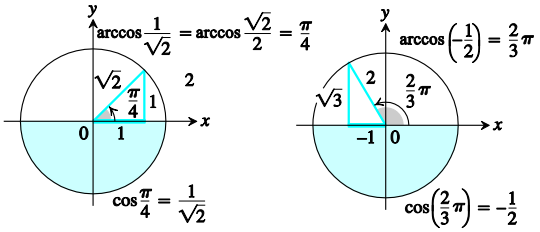
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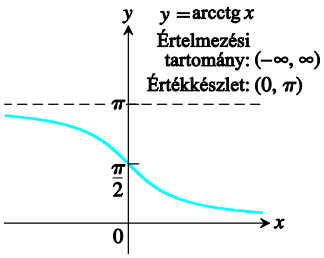
188.o.1.



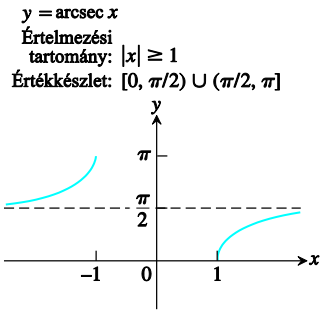
188.o.2.



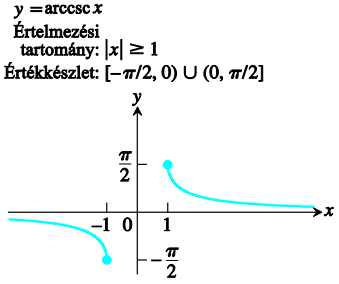
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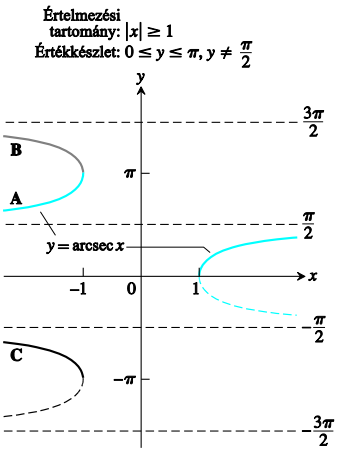
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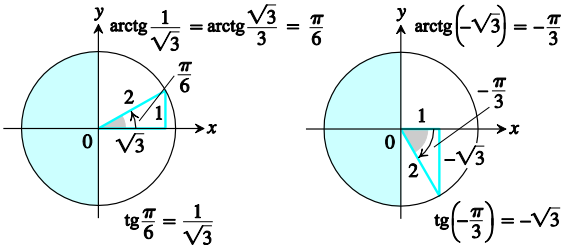
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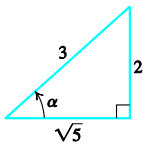
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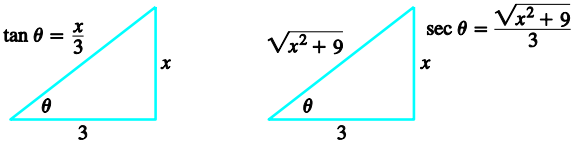
189.o.3.



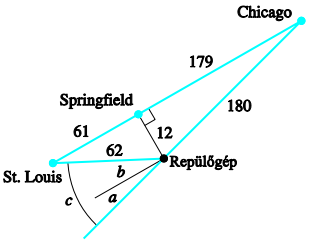
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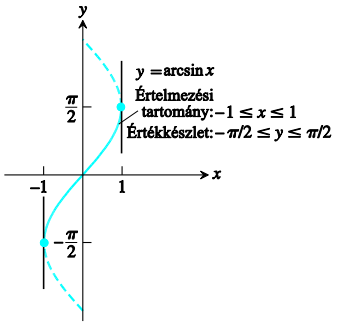
190.o.5.



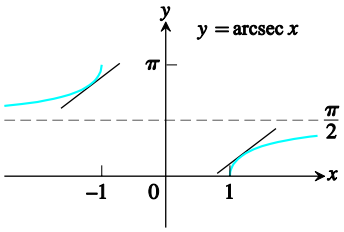
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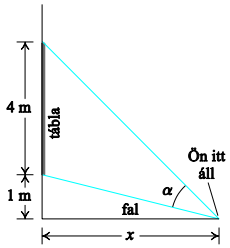
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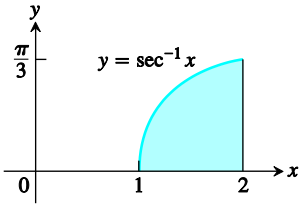
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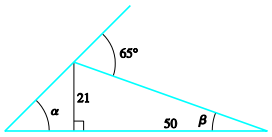
198.o.125.



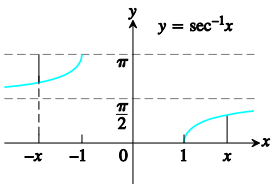
198.o.126.



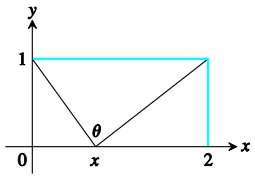
198.o.128.



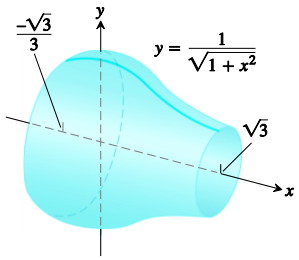
198.o.130.



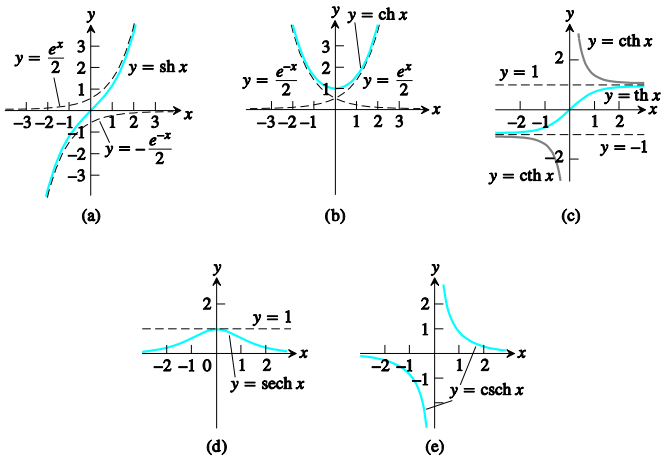
199.o.138.



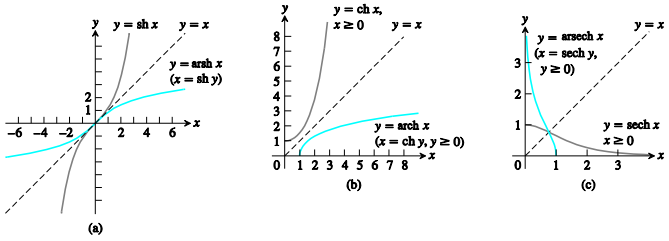
199.o.147.



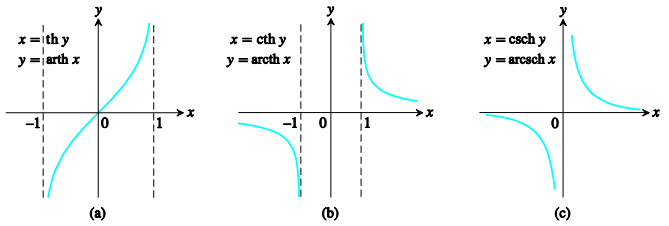
7.31.



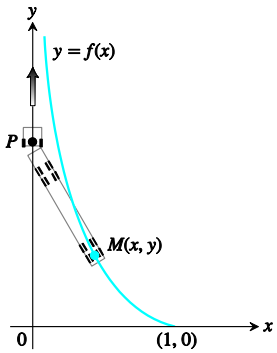
7.32



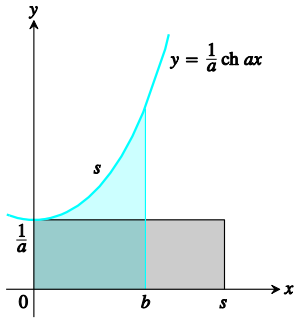
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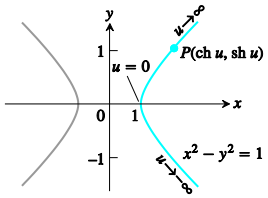
208.o.79.



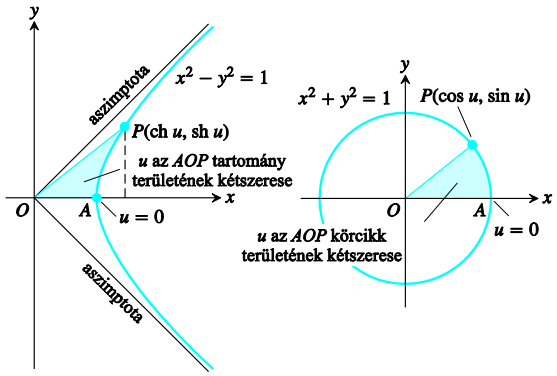
208.o.80.



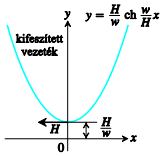
208.o.84.



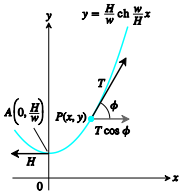
208.o.84.b.



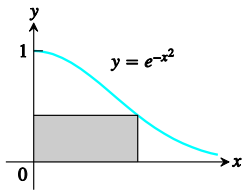
209.o.87.



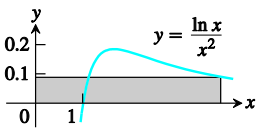
209.o.87.b.



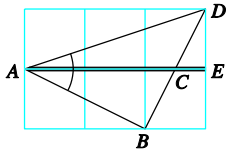
212.o.109



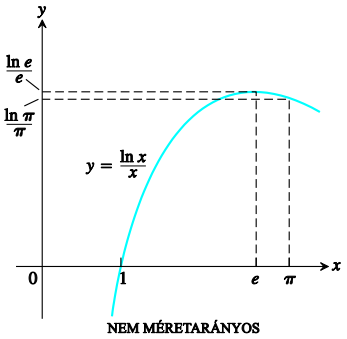
212.o.110.



213.o.15.

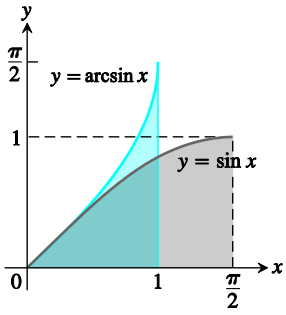


214.o.16.

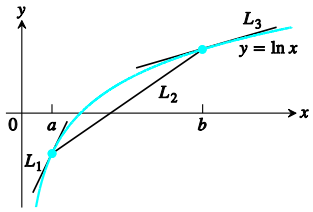


NEM MÉRETARÁNYOS

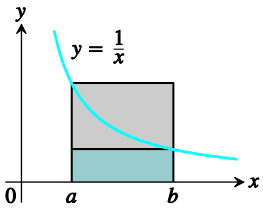
214.o.17.



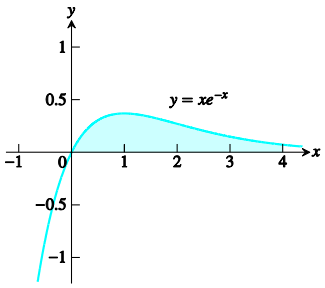
214.o.18.a.



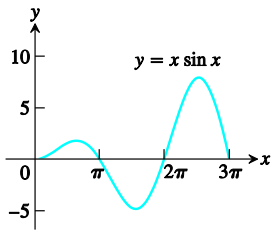
214.o.18.b.



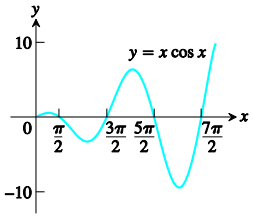
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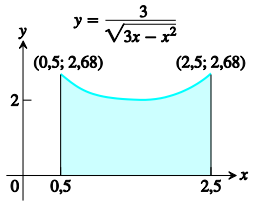
231.o.31.



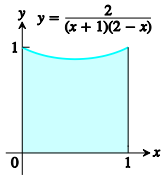
231.o.32.



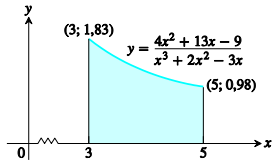
240.o.45.



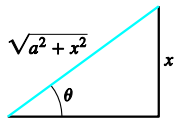
241.o.46.



241.o.48.

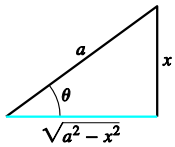


8.2.



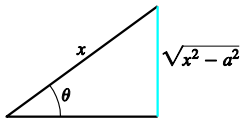
$x = a \tan\theta$

$\sqrt{a^2 + x^2} = a|\sec\theta|$



$x = a \sin\theta$

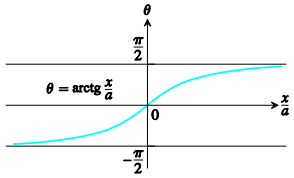
$\sqrt{a^2 - x^2} = a|\cos\theta|$

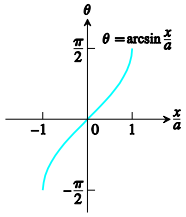


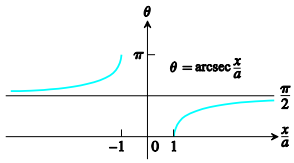
$x = a \sec\theta$

$\sqrt{x^2 - a^2} = a|\tan\theta|$

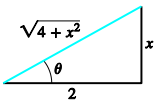
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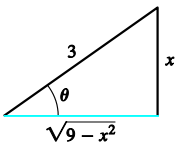




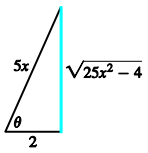
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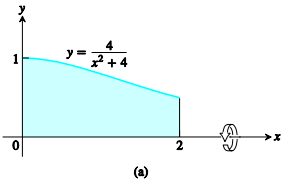
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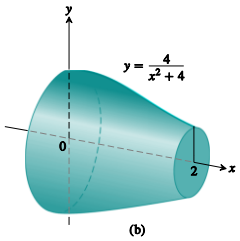


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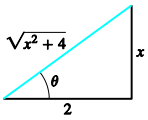


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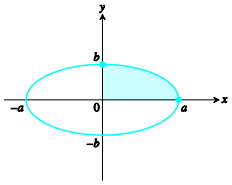




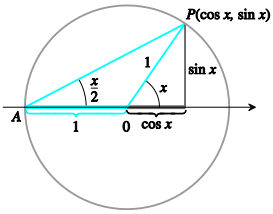
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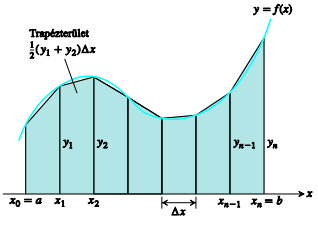
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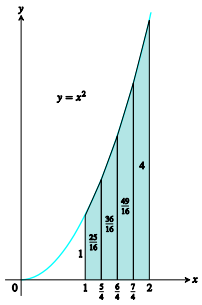
252.o.



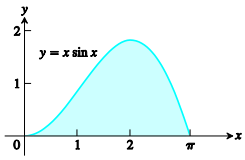
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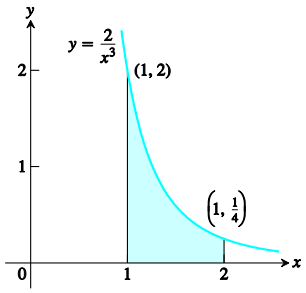
8.11.



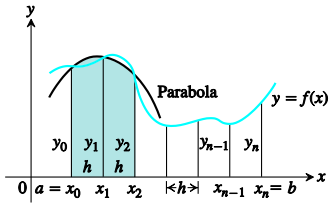
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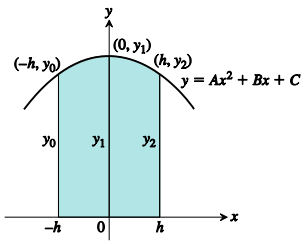
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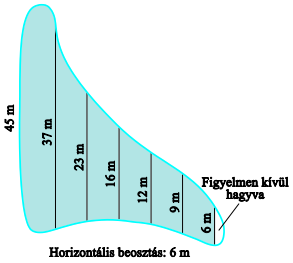
8.14.



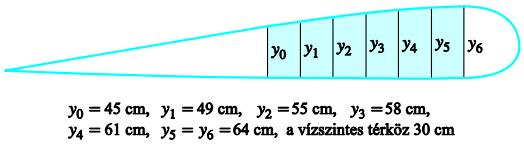
8.15.



8.16.

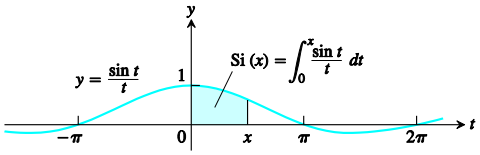


274.o.31.

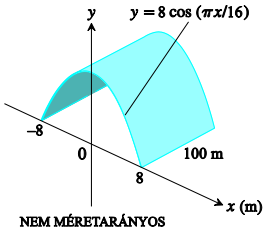


$y_0 = 45$ cm, $y_1 = 49$ cm, $y_2 = 55$ cm, $y_3 = 58$ cm,
$y_4 = 61$ cm, $y_5 = y_6 = 64$ cm, a vízszintes térköz 30 cm

274.o.33.

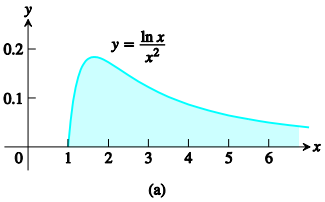


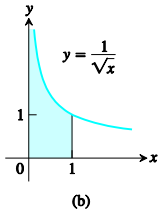
276.o.52.



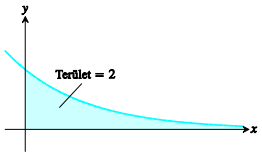
NEM MÉRETARÁNYOS

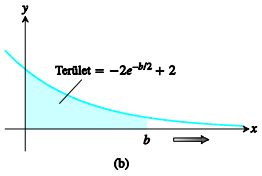
8.17.



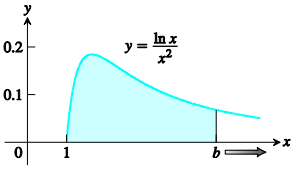


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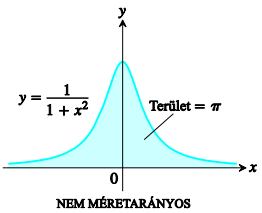




8.19.

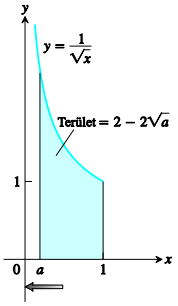


8.20.

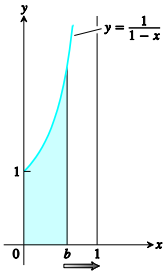


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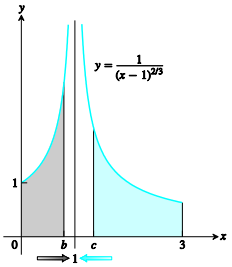
8.21.



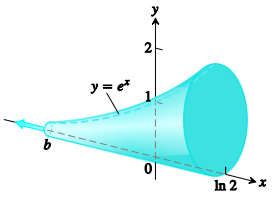
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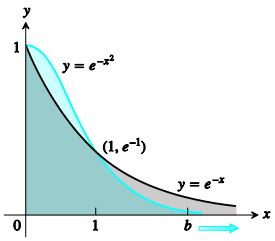
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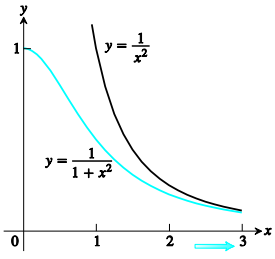
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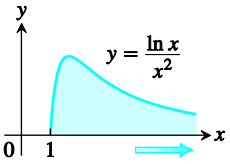
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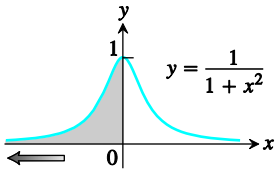
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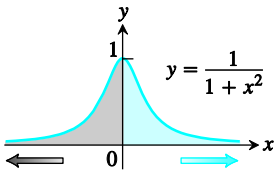
287.o.1.



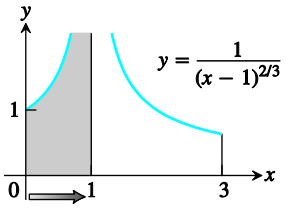
287.o.2.



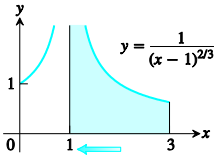
287.o.3.



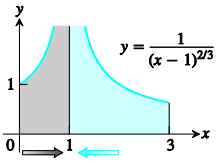
287.o.4.



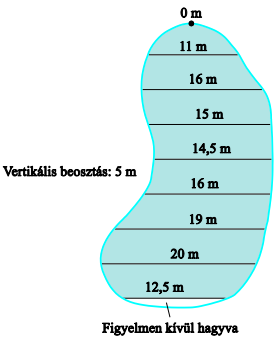
287.o.5.



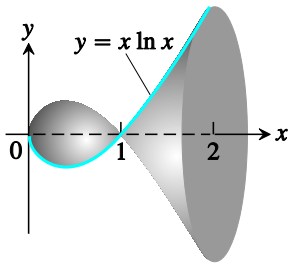
287.o.6.



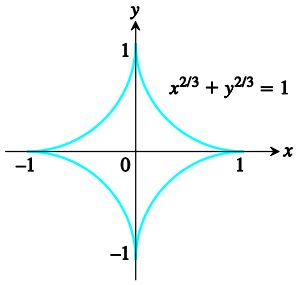
293.o.134.



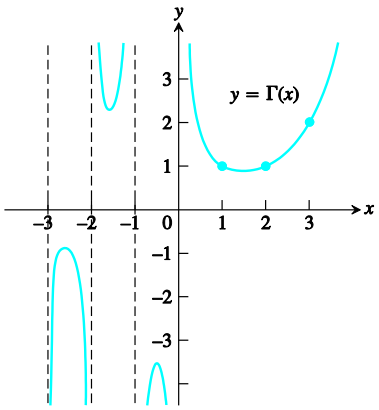
295.23.b.



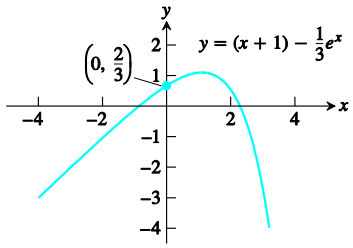
296.o.29.



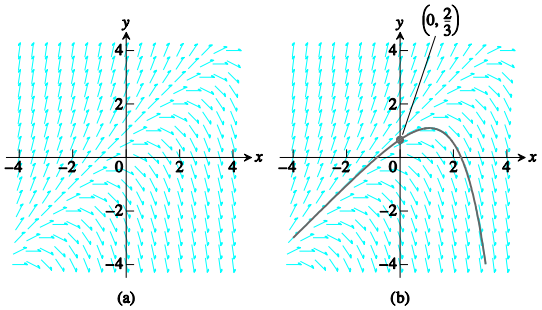
8.27.



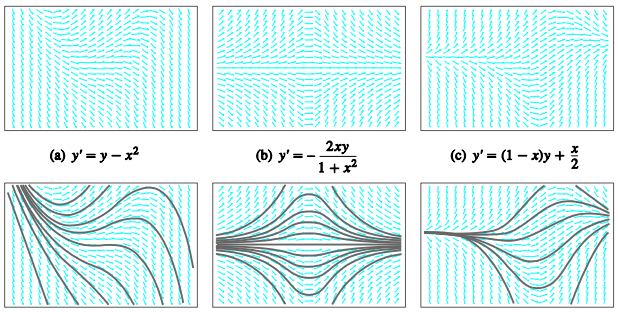
9.1.



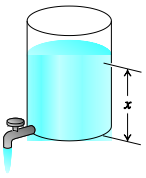
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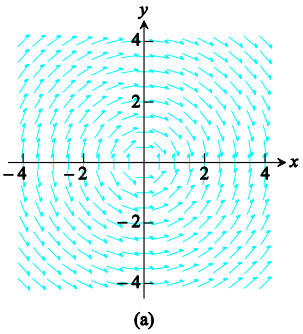
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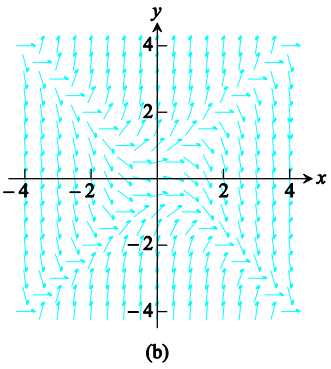
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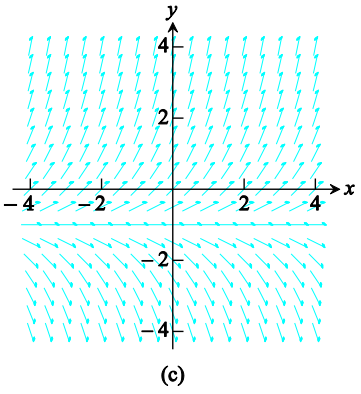
304.o.19.a.



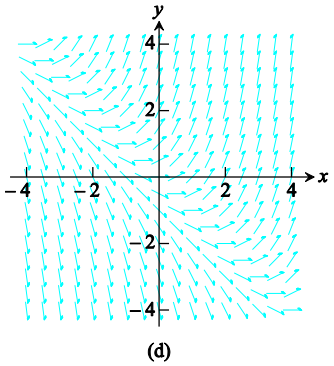
305.o.19.b.



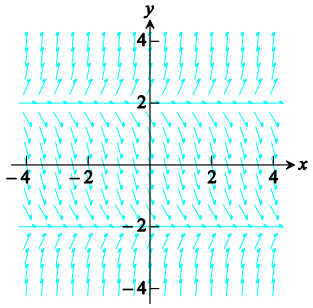
305.o.19.c.



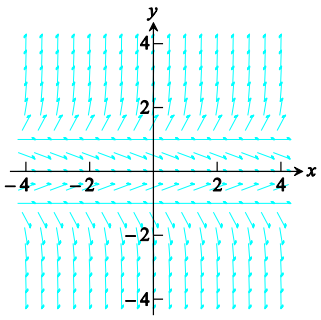
305.o.19.d.



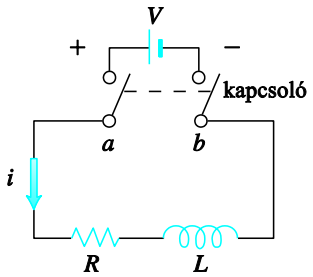
305.o.23.



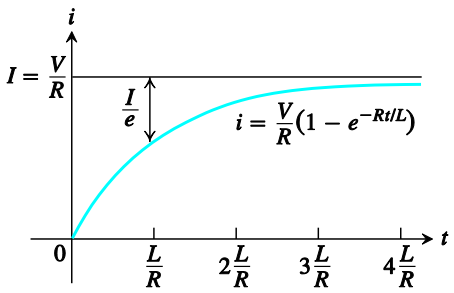
305.o.24.



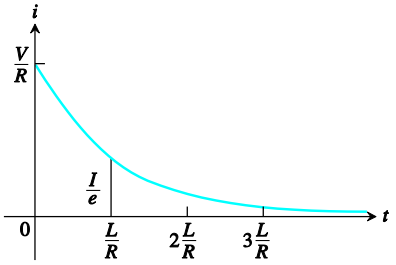
9.5.



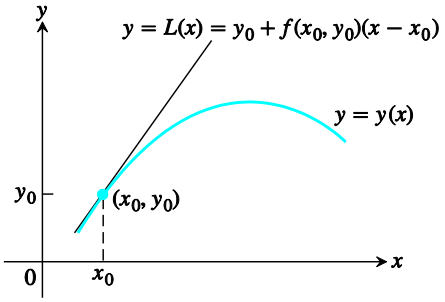
9.6.



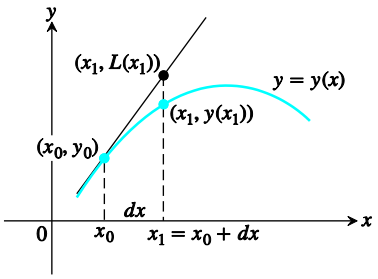
313.o.32.



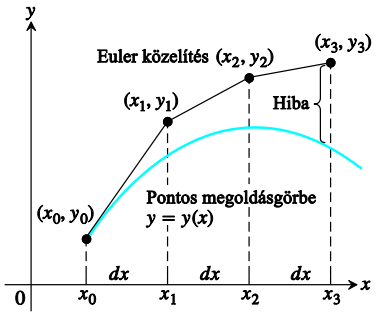
9.8.



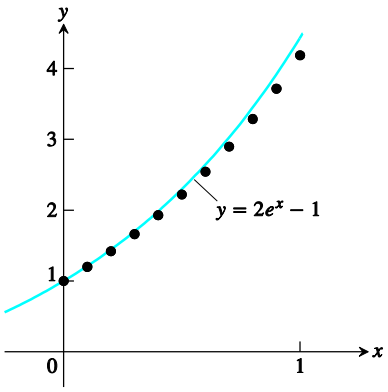
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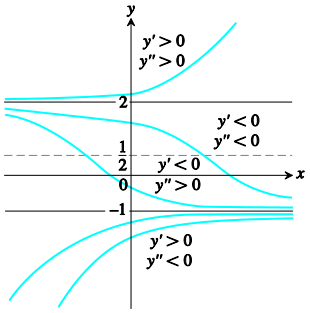
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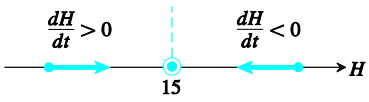
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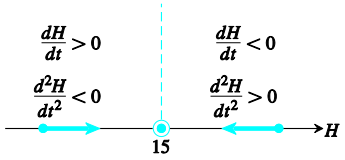
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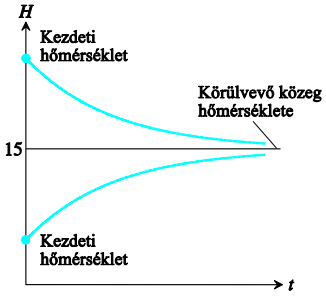
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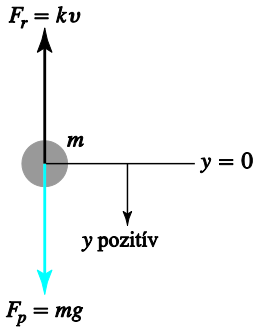
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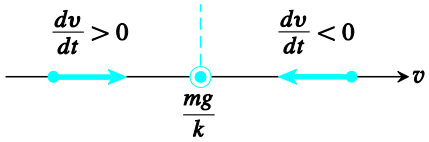
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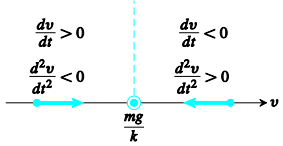
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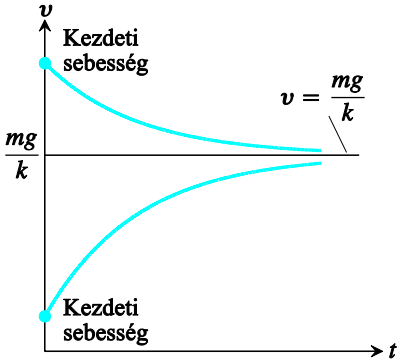
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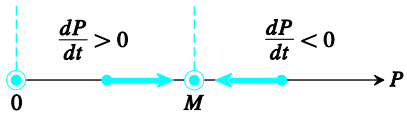
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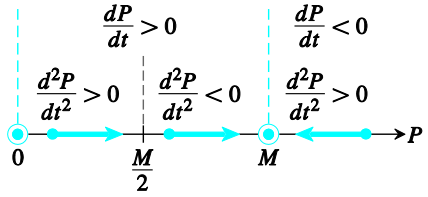
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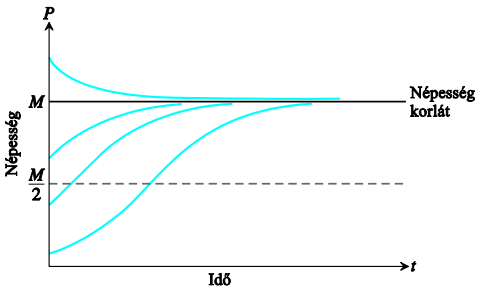
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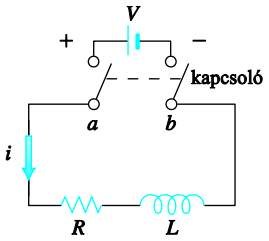
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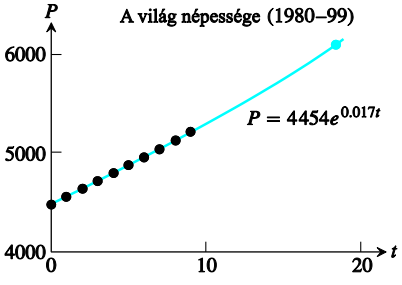
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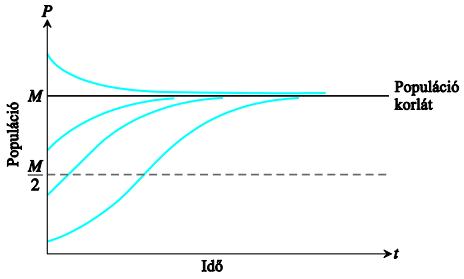
324.o.19.



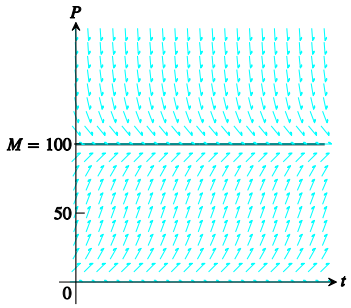
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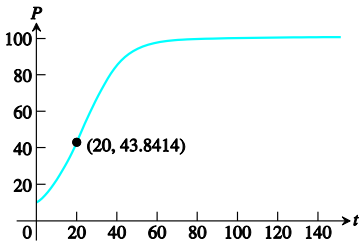
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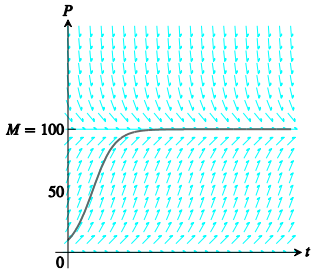
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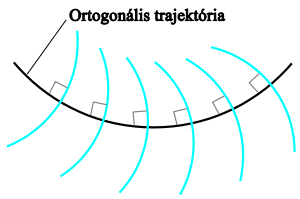
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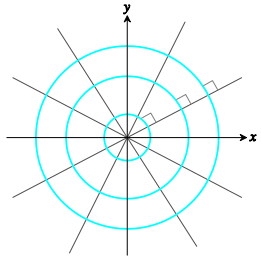
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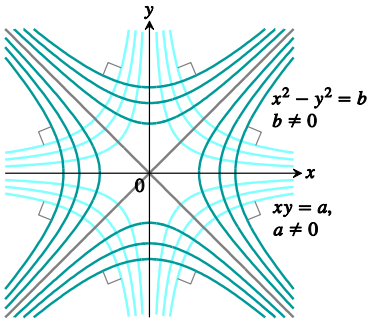
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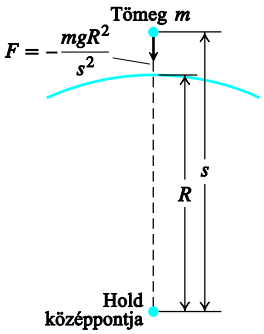
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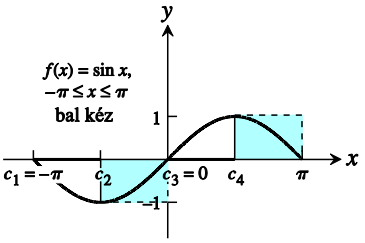
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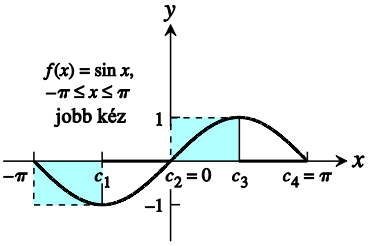
333.o.43.



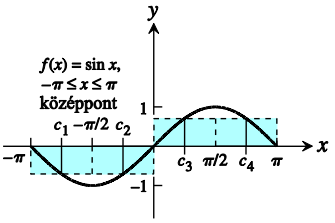
335.o.31.a.



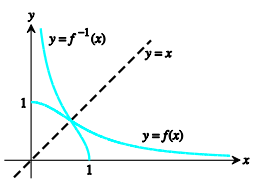
335.o.31.b.



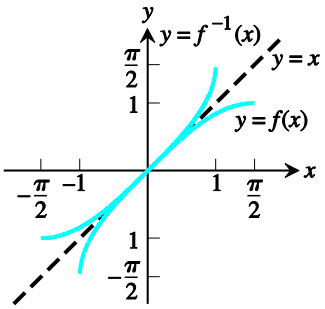
335.o.31.c.



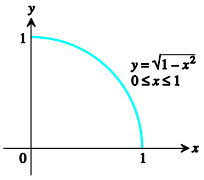
339.o.7.



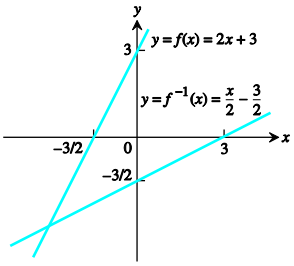
339.o.9.



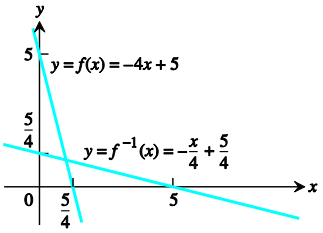
340.o.11.a.



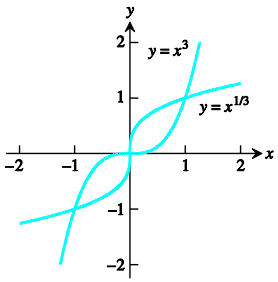
340.o.25.b.



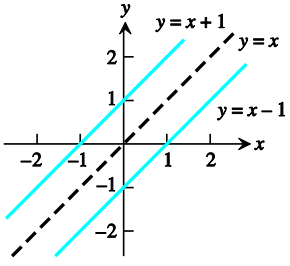
340.o.27.b.



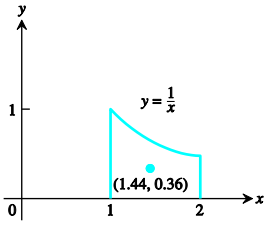
340.o.29.b.



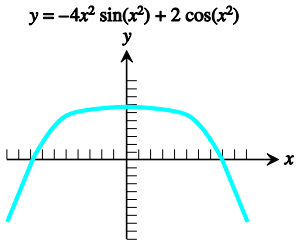
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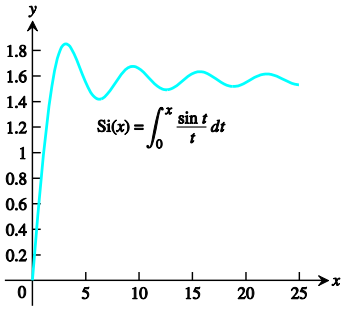
341.o.79.b.



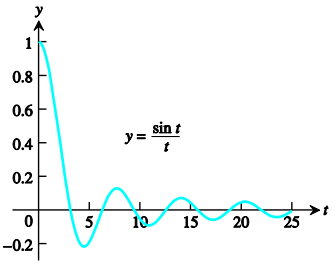
347.o.45.b.



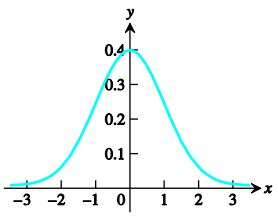
347.o.75.a.



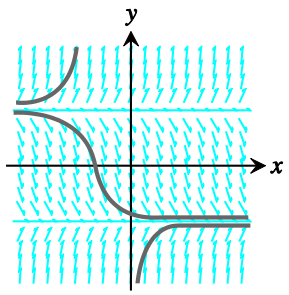
347.o.75.b.



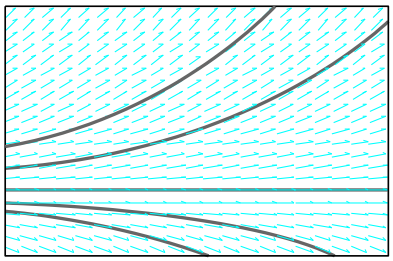
348.o.77.a.



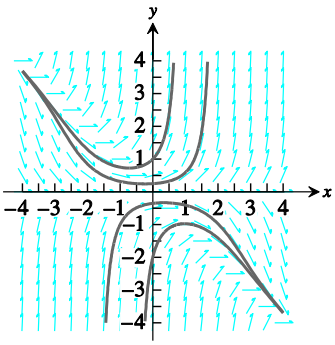
349.o.23.



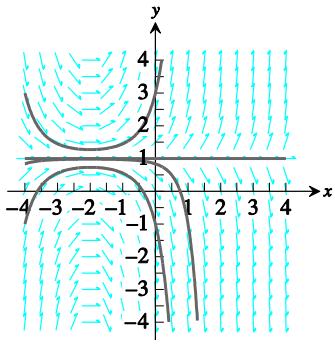
349.o.25.



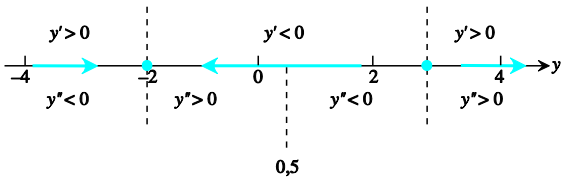
349.o.27.



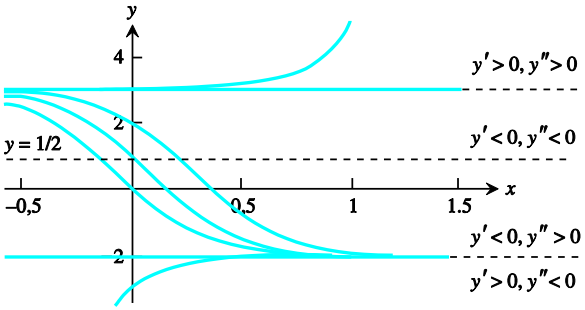
349.o.29.



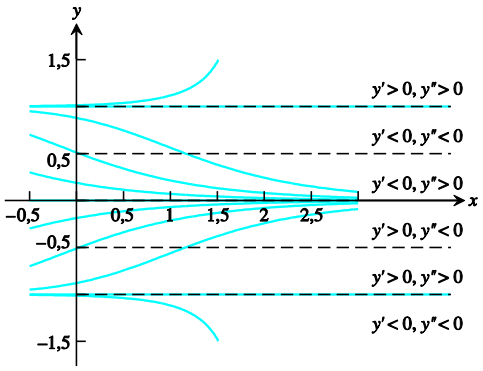
350.1.b.



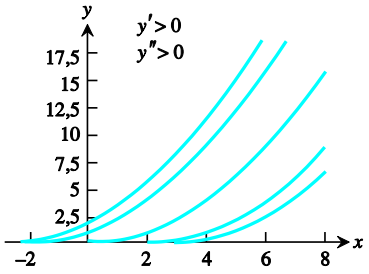
350.1.c.



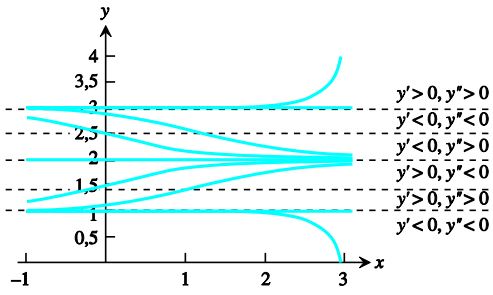
350.3.c.



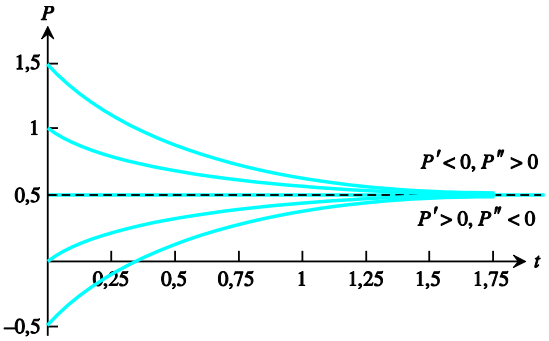
350.5.c.



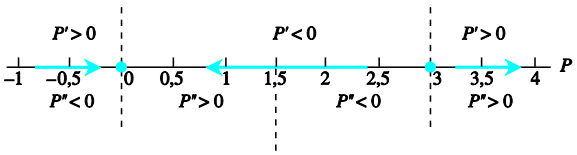
351.7.c.



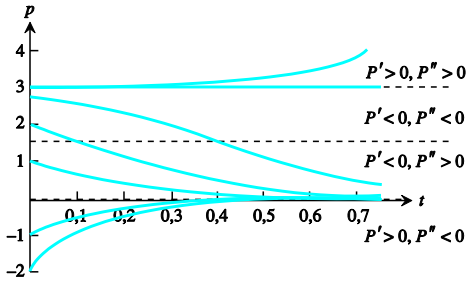
351.9.b.



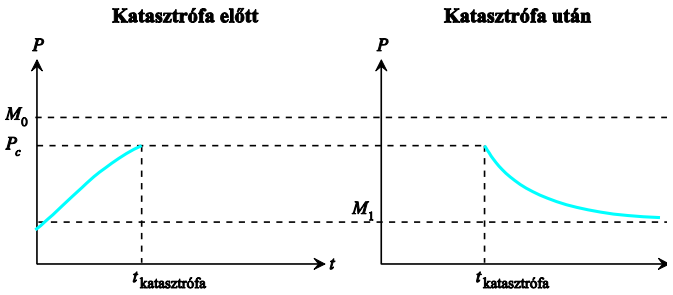
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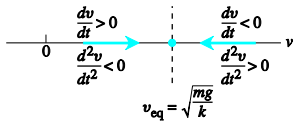
351.11b.



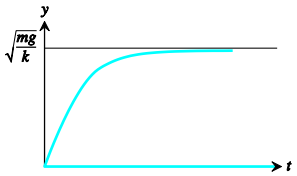
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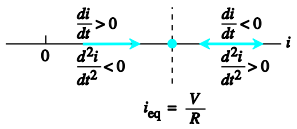
351.o.15.a.



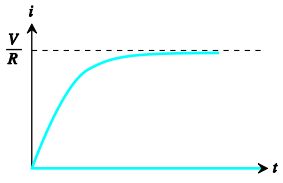
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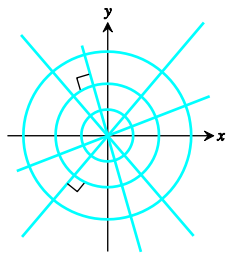
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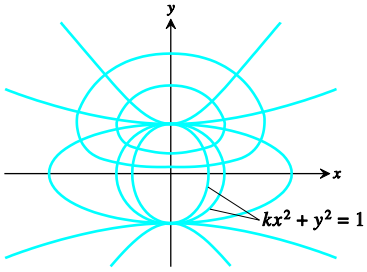
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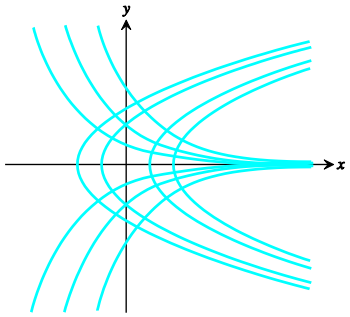
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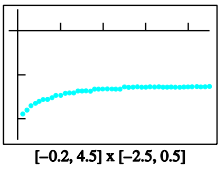
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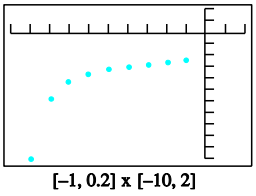
352.17.



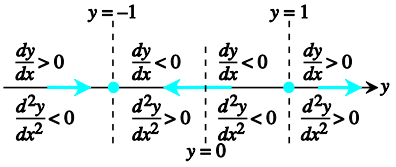
352.35.a.



352.35.b.



352.41.b.



352.41.c.

