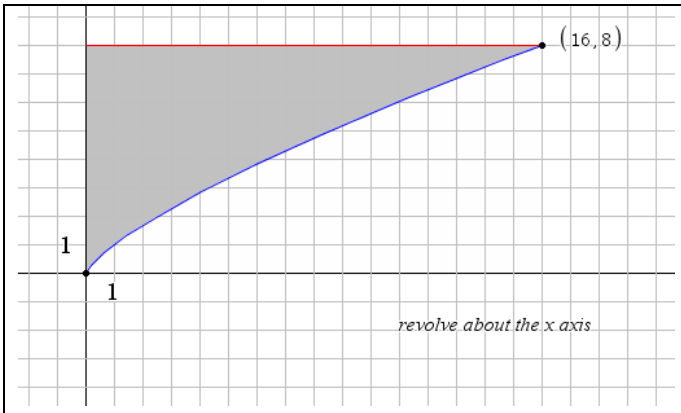
Name_____ Formative Assessment Volume using washer and disk method



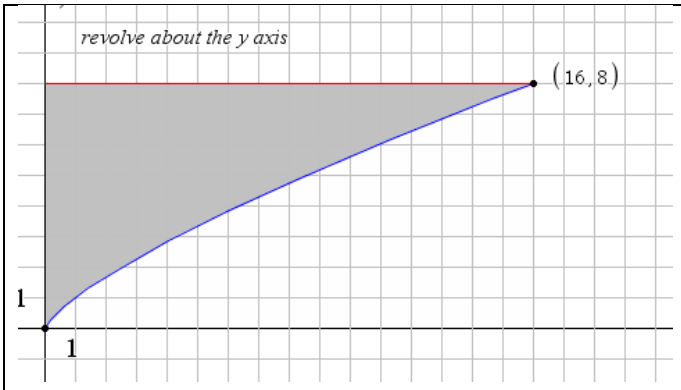
Determine the volume created by revolving the given region about the x axis

Related Functions $y = x^{\frac{3}{4}}, y = 8$

Set up the related integral

Determine the exact volume

Determine the approximate volume



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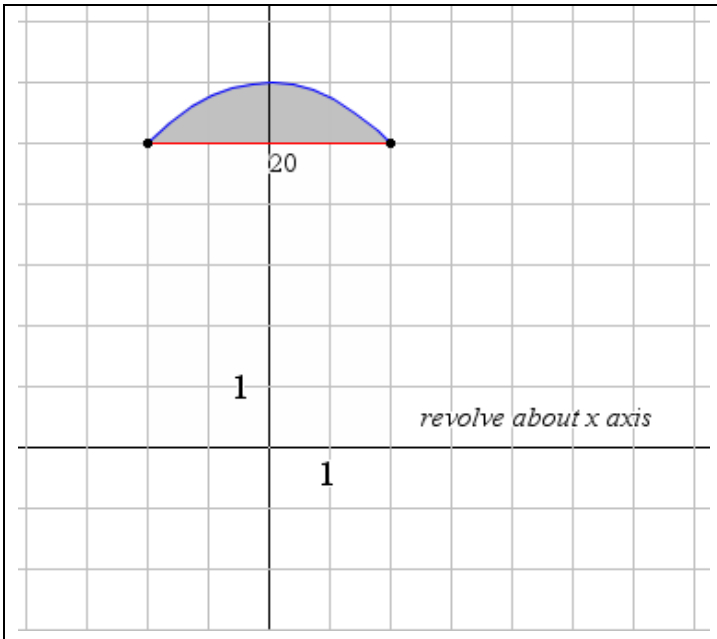


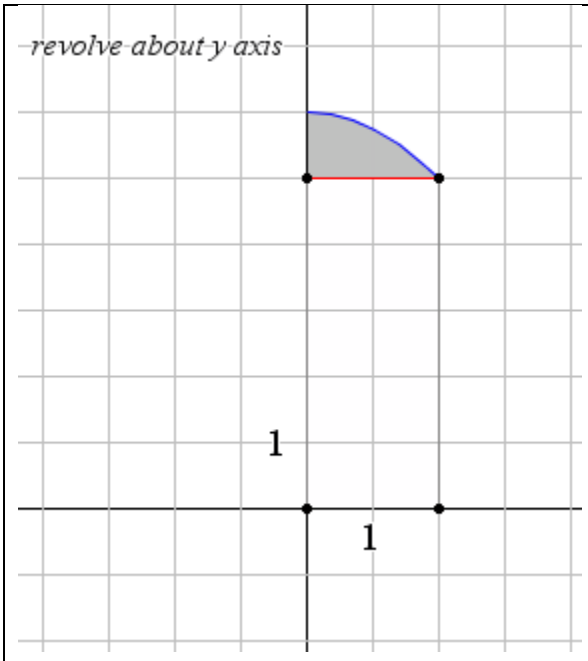
Determine the volume created by revolving the given region about the x axis

Related Functions $y = 6 - \frac{1}{4}x^2$, $y = 4$

Set up the related integral

Determine the exact volume

Determine the approximate volume



Determine the volume created by revolving the given region about the y axis

$x = \sqrt{24 - 4y}$

Set up the related integral

Determine the exact volume

Determine the approximate volume

Determine the volume of the region bounded by the graphs of the given equations about the x axis

$y = x^4 - 7x^3 + 17x^2 - 17x + 8, \quad x = 1, \quad x = 4$

Set up the related integral

Determine the exact volume

Determine the approximate volume

Determine the volume of the region bounded by the graphs of the given equations about the x axis

$y = e^{\frac{1}{4}x}, \quad x = 0, \; y = 4$

Set up the related integral

Determine the exact volume

Determine the approximate volume