Current Score: 20 / 20

Yinglai Wang MA 162 Spring 2012, section 321, Spring 2012 Instructor: Jonathan Montano

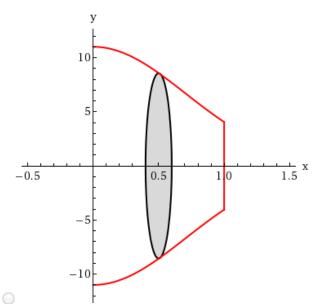
1. 3.33/3.33 points | Previous Answers

SCalcET7 6.3.005.MI.

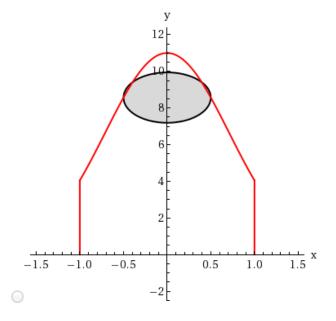
Use the method of cylindrical shells to find the volume V generated by rotating the region bounded by the given curves about the yaxis.

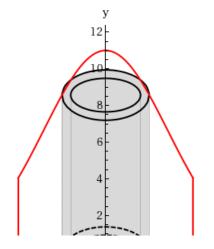
$$y = 11e^{-x^2}$$
, $y = 0$, $x = 0$, $x = 1$

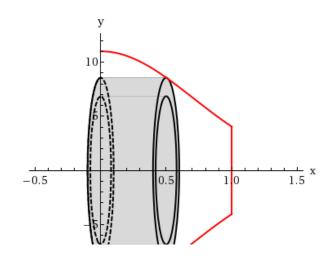
Sketch the region and a typical shell.

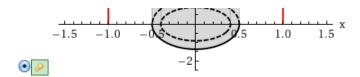


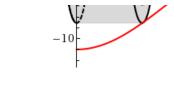
Due: Thursday, January 26 2012 11:55 PM EST











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2. 3.33/3.33 points | Previous Answers

SCalcET7 6.3.007.

Use the method of cylindrical shells to find the volume generated by rotating the region bounded by the given curves about the yaxis.

$$y = 3x^2$$
, $y = 18x - 6x^2$



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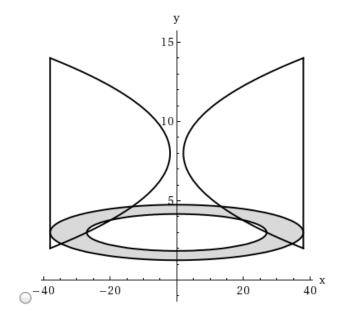
3. 3.33/3.33 points | Previous Answers

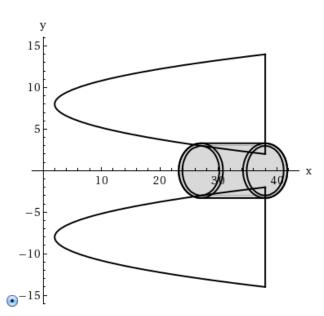
SCalcET7 6.3.013.

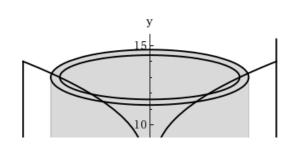
Use the method of cylindrical shells to find the volume V of the solid obtained by rotating the region bounded by the given curves

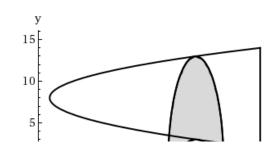
$$x = 2 + (y - 8)^2$$
, $x = 38$

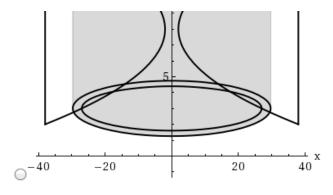
Sketch the region and a typical shell.

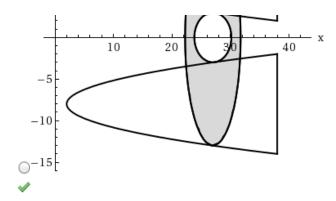












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4. 3.33/3.33 points | Previous Answers

SCalcET7 6.3.018.

Use the method of cylindrical shells to find the volume V generated by rotating the region bounded by the given curves about the specified axis.

$$y = 32 - x^2$$
, $y = x^2$; about $x = 4$

V =



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5. 3.33/3.33 points | Previous Answers

SCalcET7 6.3.037.

The region bounded by the given curves is rotated about the specified axis. Find the volume V of the resulting solid by any method.

$$y = -x^2 + 23x - 132$$
, $y = 0$; about the y-axis

V =



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6. 3.35/3.35 points | Previous Answers

SCalcET7 6.3.047.

Use cylindrical shells to find the volume \boldsymbol{V} of the solid.

A right circular cone with height 4h and base radius 3r

V =



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http://www.webassign.net/web/Student/Assignment-Responses/submit?dep=3784935

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