WebAssign
Hw 5 (6.1): Area between Curves (Homework)

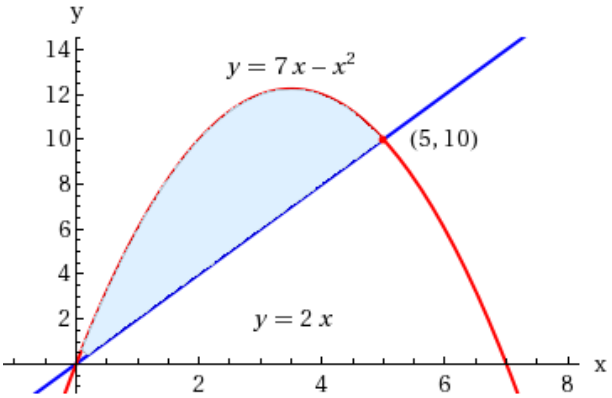
Yinglai Wang
MA 162 Spring 2012, section 321, Spring 2012
Instructor: Jonathan Montano

Current Score : 20 / 20 **Due :** Tuesday, January 24 2012 11:55 PM EST

1. 2.85/2.85 points | Previous Answers SCalcET7 6.1.001.MI.

Find the area of the shaded region.

125/6



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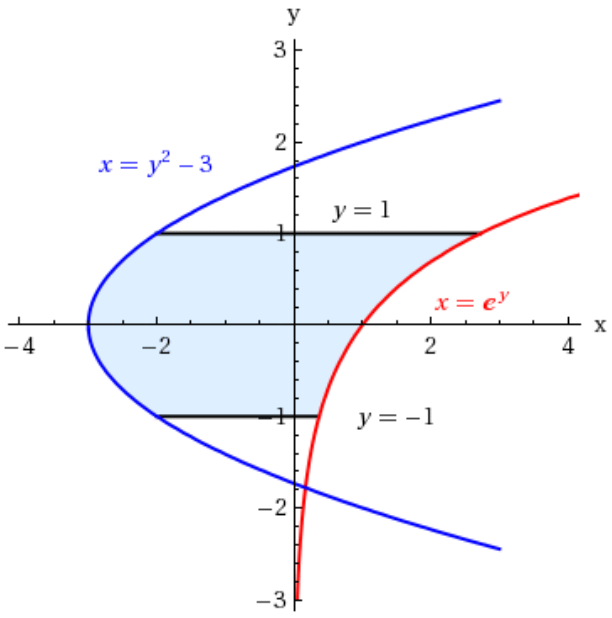
2. 2.85/2.85 points | Previous Answers SCalcET7 6.1.003.

Find the area of the shaded region.



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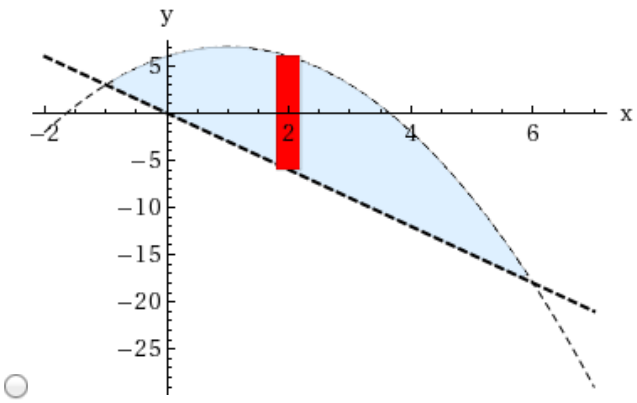
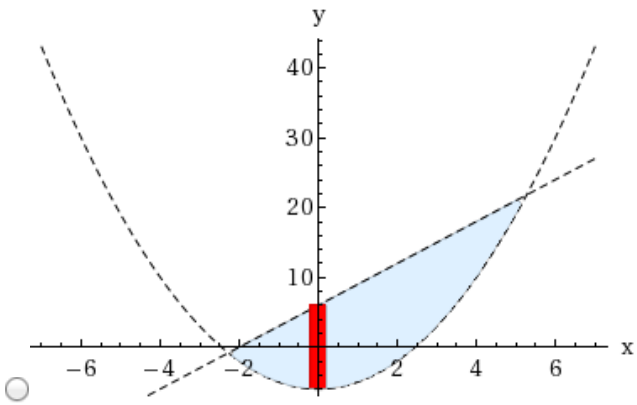
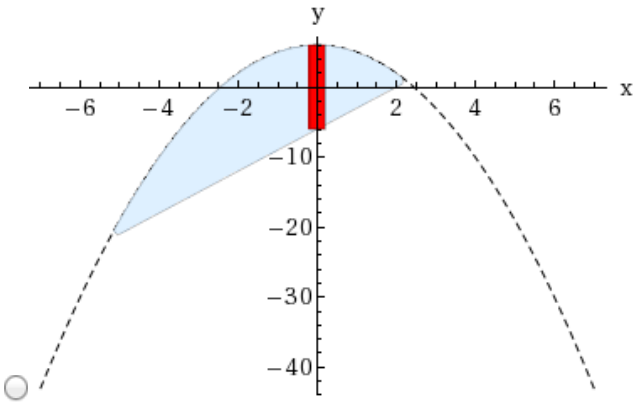
3. 2.85/2.85 points | Previous Answers SCalcET7 6.1.008.

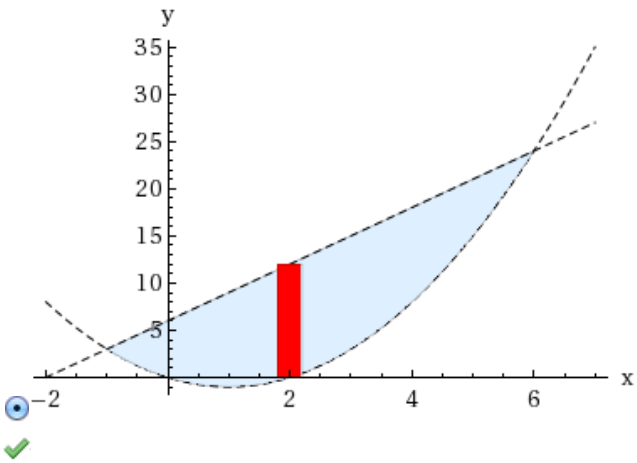
Sketch the region enclosed by the given curves. Decide whether to integrate with respect to x or y. Draw a typical approximating rectangle.

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









Find the area of the region.

343/6

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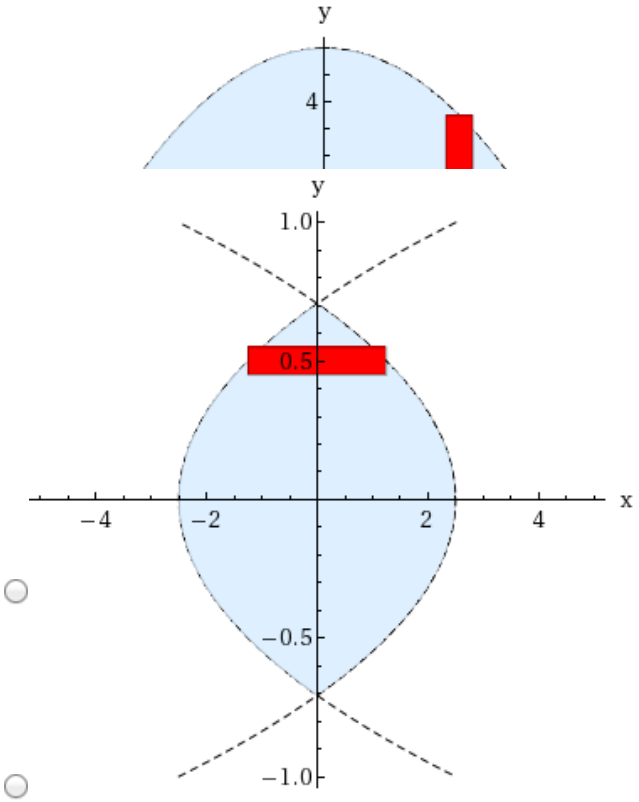
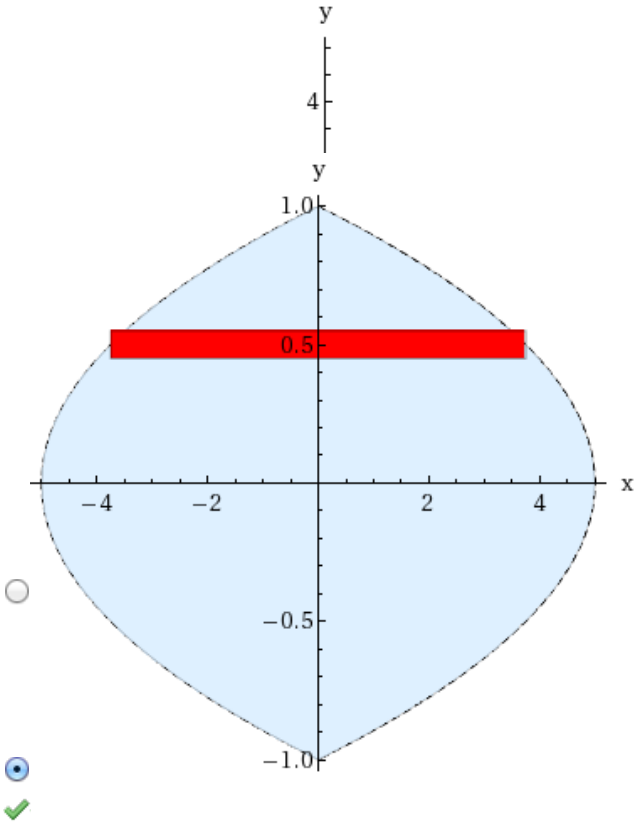
4. 2.85/2.85 points | Previous Answers SCalcET7 6.1.011.MI.

Sketch the region enclosed by the given curves. Decide whether to integrate with respect to x or y. Draw a typical approximating rectangle.

$x = 5 - 5y^2,\ x = 5y^2 - 5$





Find the area of the region.

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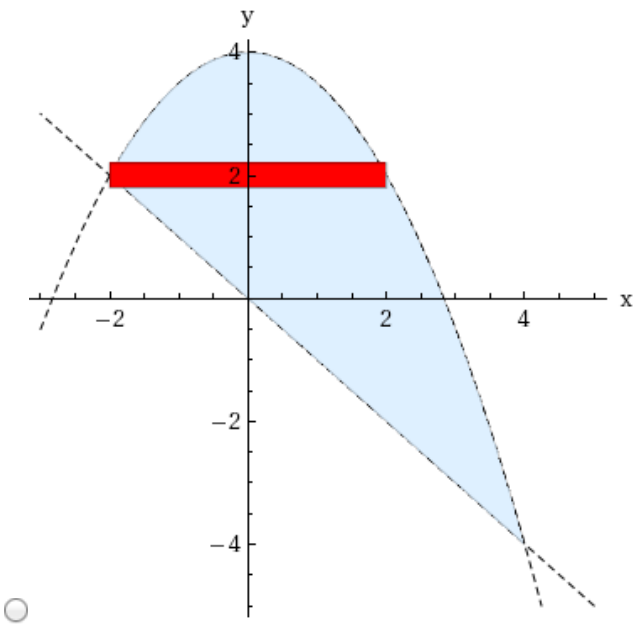
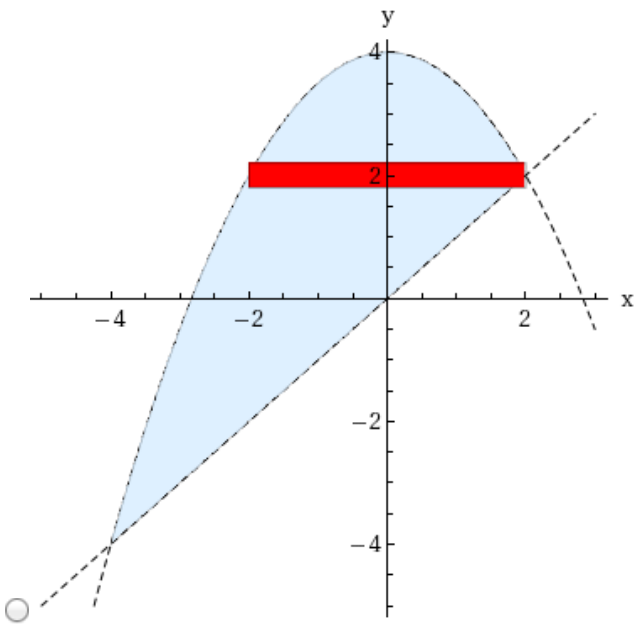
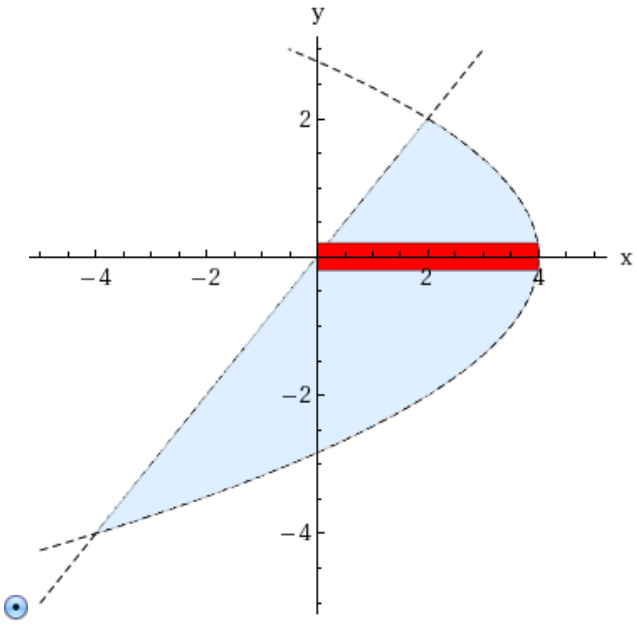
5. 2.85/2.85 points | Previous Answers SCalcET7 6.1.012.

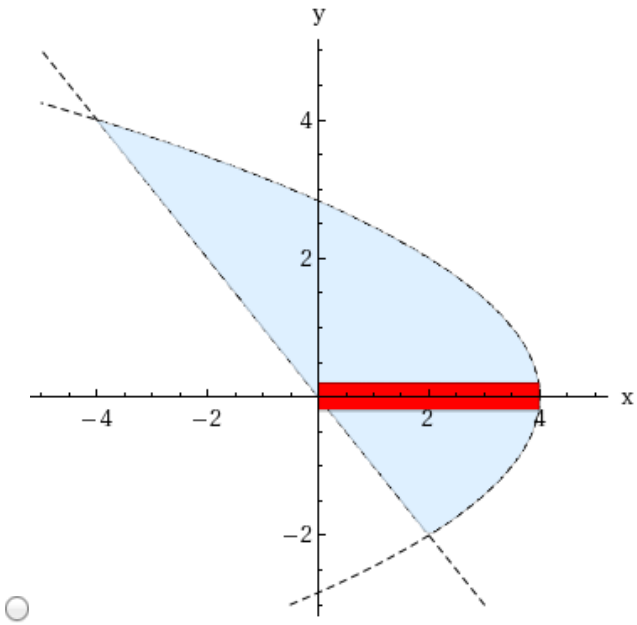
Sketch the region enclosed by the given curves. Decide whether to integrate with respect to x or y. Draw a typical approximating rectangle.

$2x + y^2 = 8,\ x = y$









Find the area of the region.

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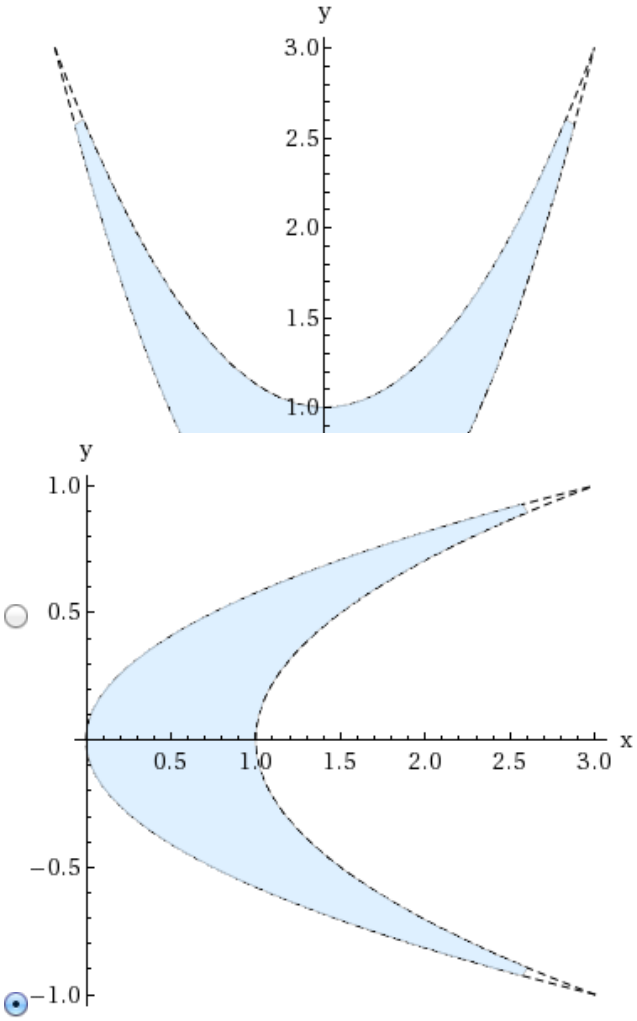
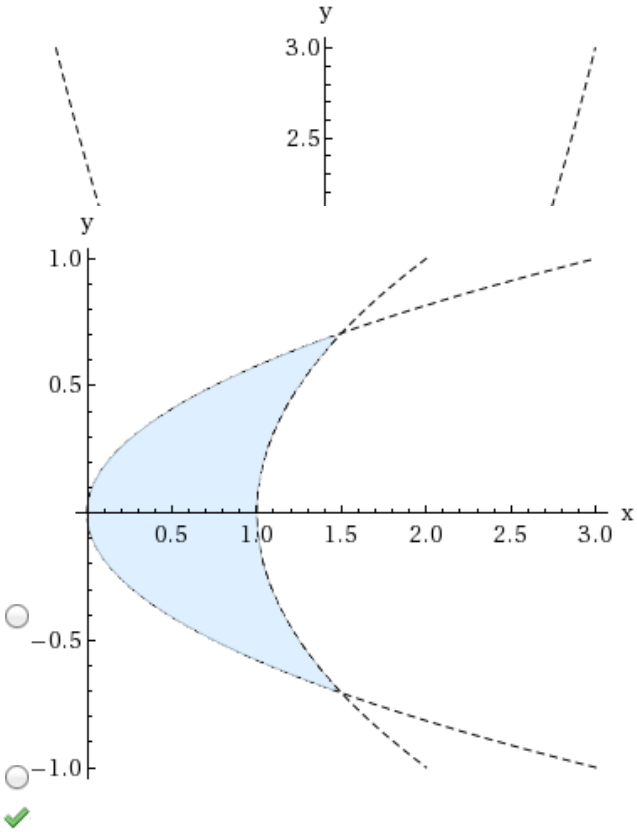
6. 2.85/2.85 points | Previous Answers SCalcET7 6.1.017.

Sketch the region enclosed by the given curves.

$x = 3y^2,\ x = 1 + 2y^2$





Find its area.

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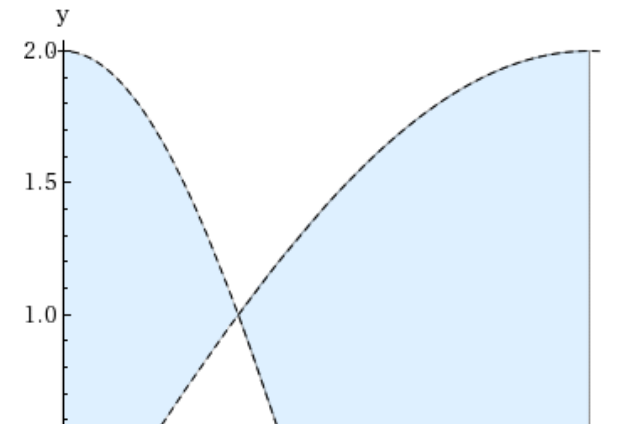
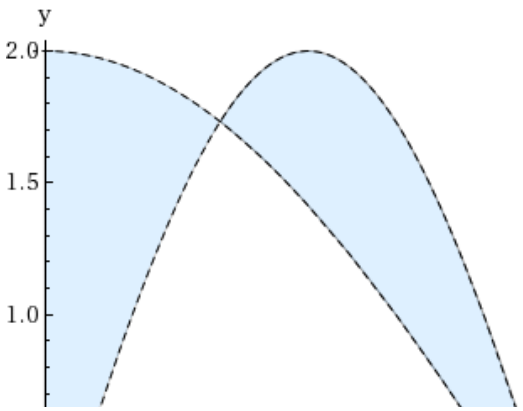
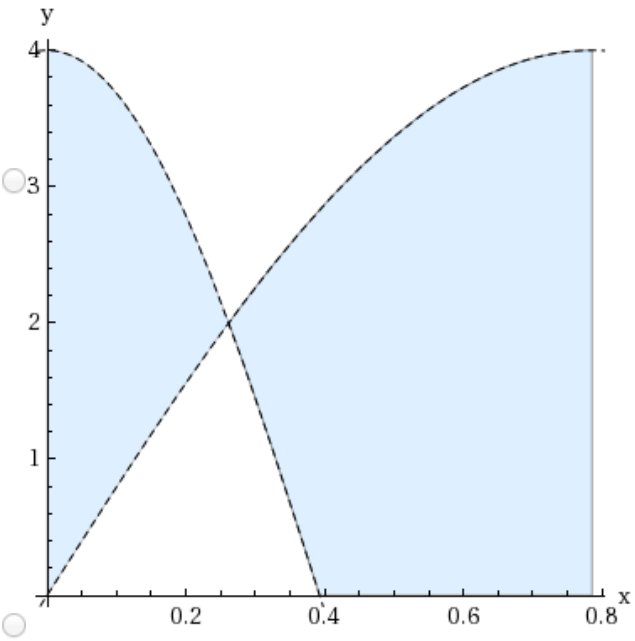
7. 2.9/2.9 points | Previous Answers SCalcET7 6.1.023.

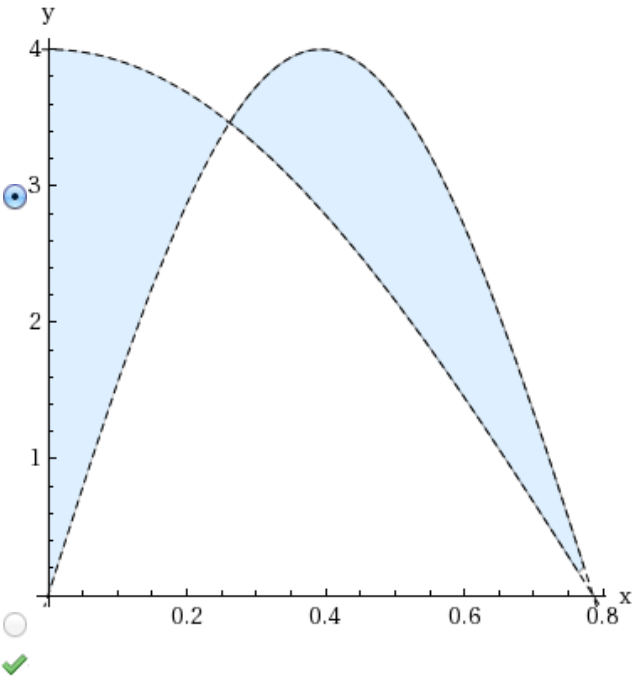
Sketch the regions enclosed by the given curves.

$y = 2\cos 4x, \quad y = 2\sin 8x, \quad x = 0, \quad x = \pi/8$









Find its area.

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