WebAssign

Hw 17 (8.1, 8.2): Arc Length and Surf. Revolution (Homework)

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MA 162 Spring 2012, section 321, Spring 2012

Instructor: Jonathan Montano

Current Score: 20 / 20 Due: Thursday, February 23 2012 11:55 PM EST

1. 2/2 points | Previous Answers

SCalcET7 8.1.007.

Find the exact length of the curve.

$$y = 3 + 4x^{3/2}, \quad 0 \le x \le 1$$



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2. 2/2 points | Previous Answers

SCalcET7 8.1.008.MI.

Find the exact length of the curve.

$$y^2 = 4(x + 5)^3$$
, $0 \le x \le 1$, $y > 0$



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3. 2/2 points | Previous Answers

SCalcET7 8.1.011.

Find the exact length of the curve.

$$x = \frac{1}{3}\sqrt{y} \ (y - 3), \ 16 \le y \le 25$$



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4. 2/2 points | Previous Answers

SCalcET7 8.1.013.

Find the exact length of the curve.

$$y = \ln(\sec x), \quad 0 \le x \le \pi/4$$



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5. 2/2 points | Previous Answers

SCalcET7 8.1.017.

Find the exact length of the curve.

$$y = \ln(1 - x^2), \ 0 \le x \le \frac{1}{5}$$



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6. 2/2 points | Previous Answers

SCalcET7 8.2.005.

Find the exact area of the surface obtained by rotating the curve about the x-axis.

$$y=x^3,\quad 0\leq x\leq 4$$



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7. 2/2 points | Previous Answers

SCalcET7 8.2.006.

Find the exact area of the surface obtained by rotating the curve about the x-axis.

$$9x = y^2 + 36$$
, $4 \le x \le 8$



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8. 2/2 points | Previous Answers

SCalcET7 8.2.009.

Find the exact area of the surface obtained by rotating the curve about the x-axis.

$$y = \sin \frac{\pi x}{5}$$
, $0 \le x \le 5$





9. 2/2 points | Previous Answers

SCalcET7 8.2.011.

Find the exact area of the surface obtained by rotating the curve about the x-axis.

$$x = \frac{1}{3}(y^2 + 2)^{3/2}, \quad 3 \le y \le 5$$





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10.2/2 points | Previous Answers

SCalcET7 8.2.014.

The given curve is rotated about the y-axis. Find the area of the resulting surface.

$$y = 3 - x^2, \quad 0 \le x \le 2$$



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