WebAssign
HW 6.1 (Homework)

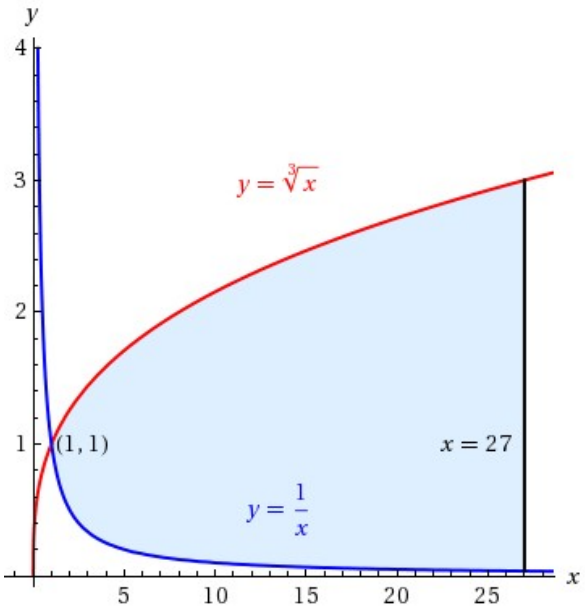
NICK Martinez
Math 266 Section 2116, section 21168, Fall 2018
Instructor: Yoon Yun

Current Score : 6 / 20 **Due :** Sunday, September 2 2018 11:59 PM PDT

1. 2/2 points | Previous AnswersSCalcET8 6.1.001.

Find the area of the shaded region.

60−*ln*(27)



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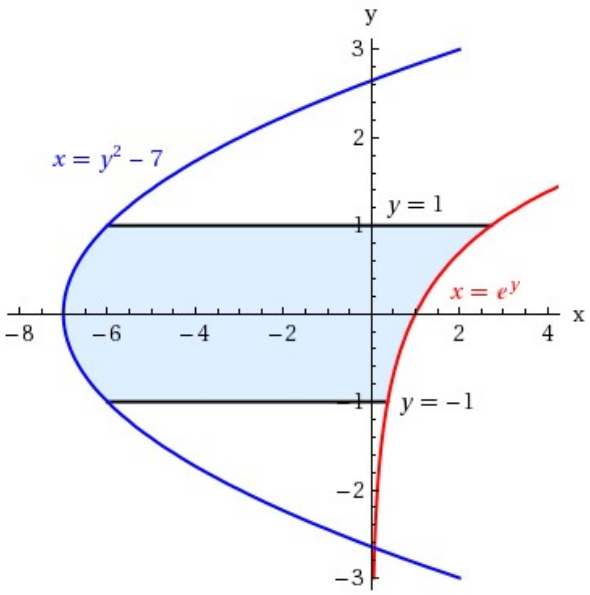
2. 2/2 points | Previous AnswersSCalcET8 6.1.003.

Find the area of the shaded region.

$403+e-1e$



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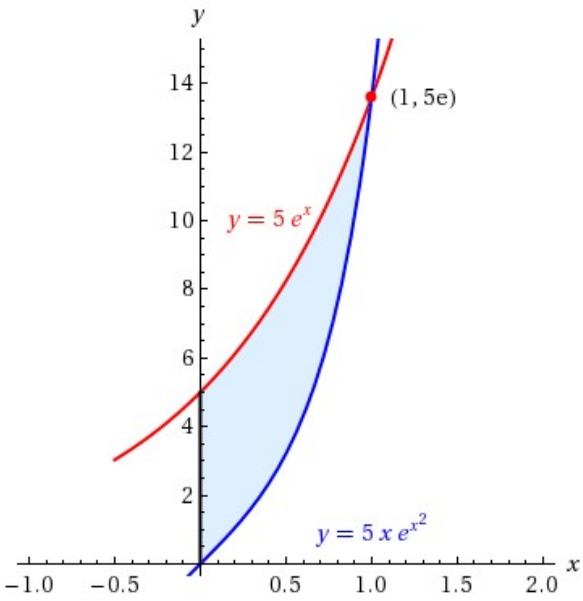
3. 2/2 points | Previous AnswersSCalcET8 6.1.002.

Find the area of the shaded region.

$52(e-1)$



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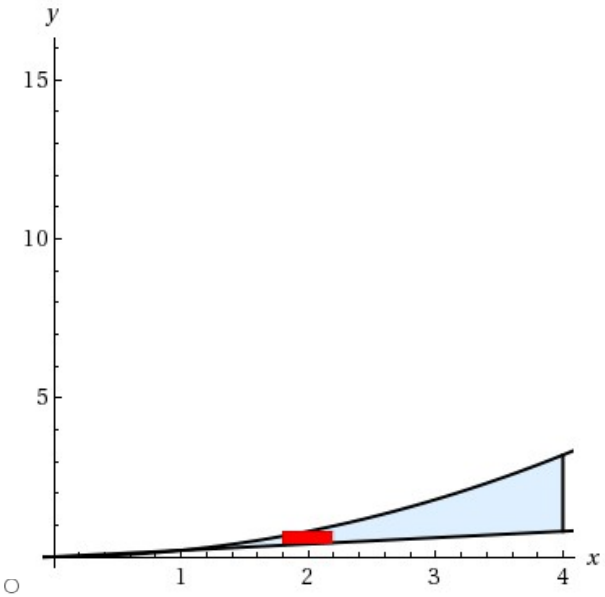
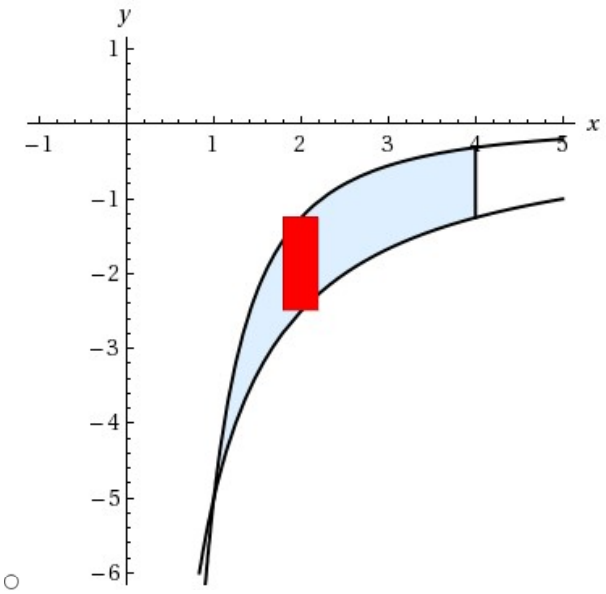
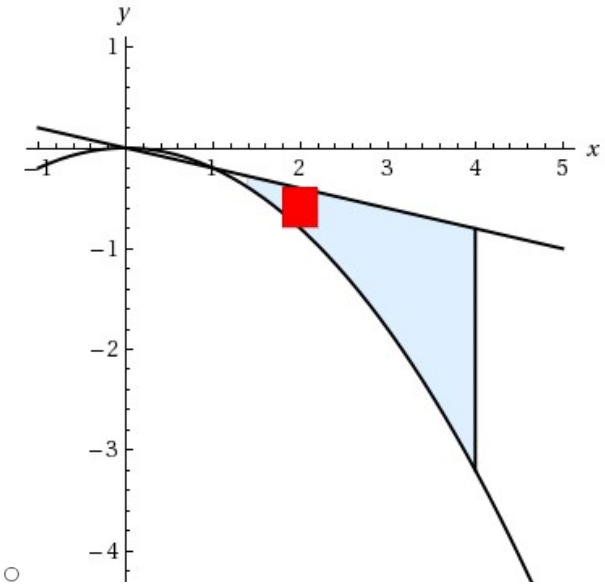
4. –/2 pointsSCalcET8 6.1.009.

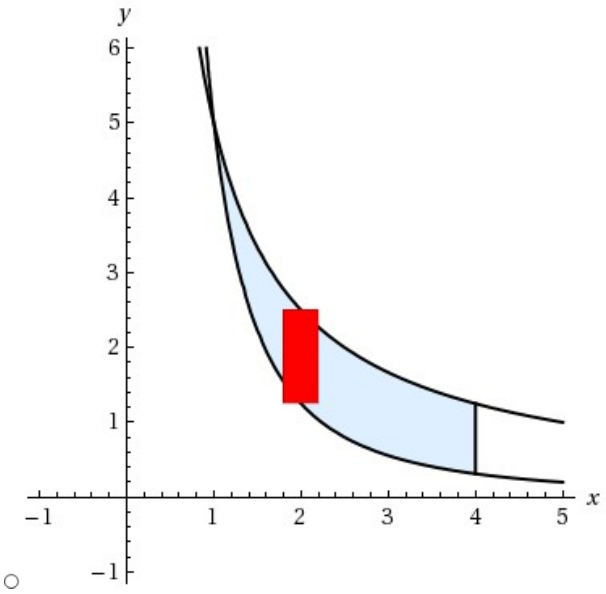
Sketch the region enclosed by the given curves. Decide whether to integrate with respect to x or y. Draw a typical approximating rectangle.

$y = 5/x,\ y = 5/x^2,\ x = 4$









Find the area of the region.

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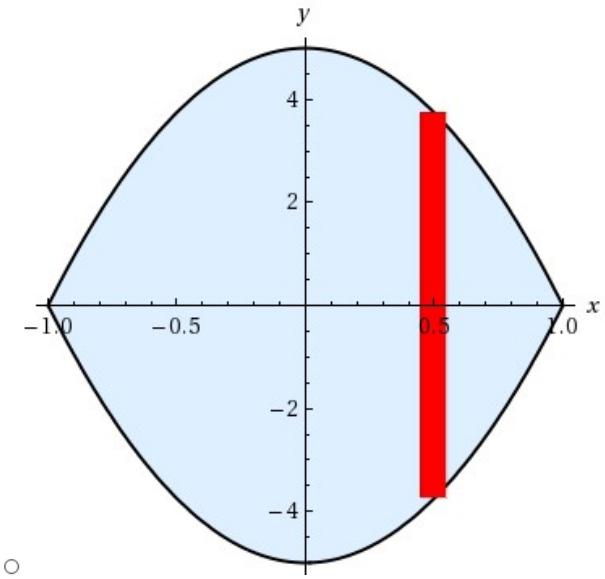
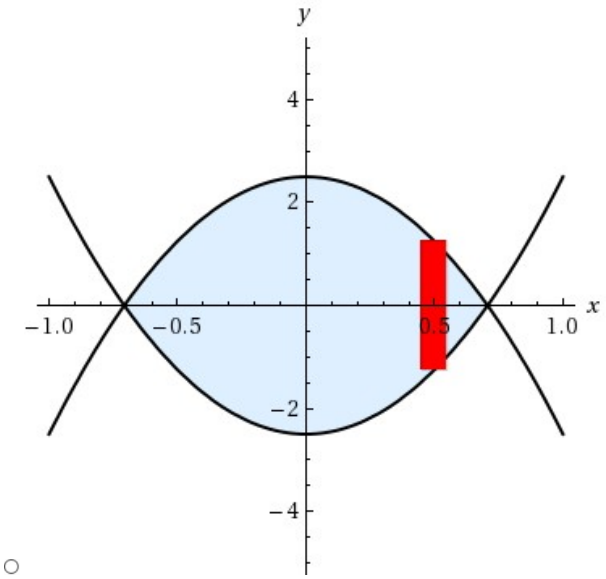
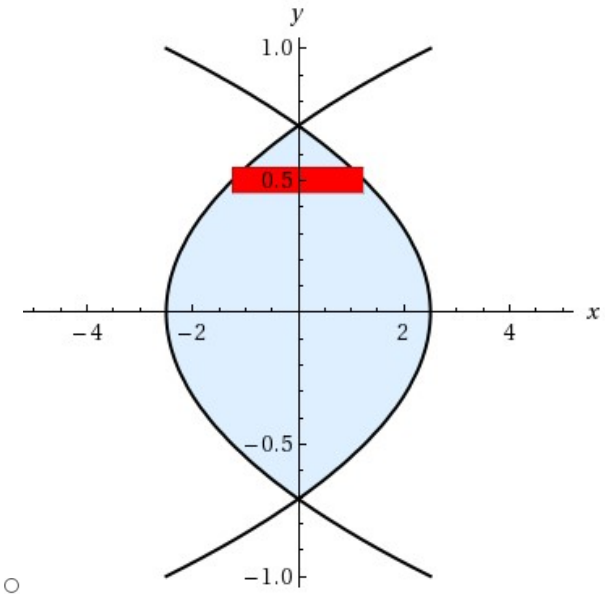
5. –/2 pointsSCalcET8 6.1.011.MI.

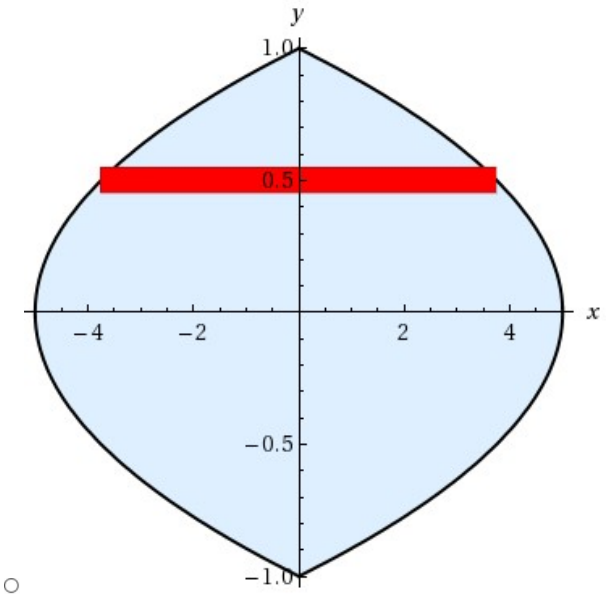
Sketch the region enclosed by the given curves. Decide whether to integrate with respect to x or y. Draw a typical approximating rectangle.

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









Find the area of the region.

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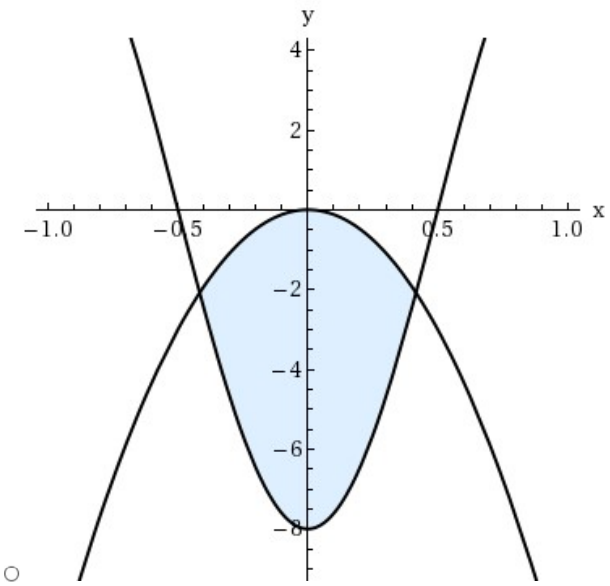
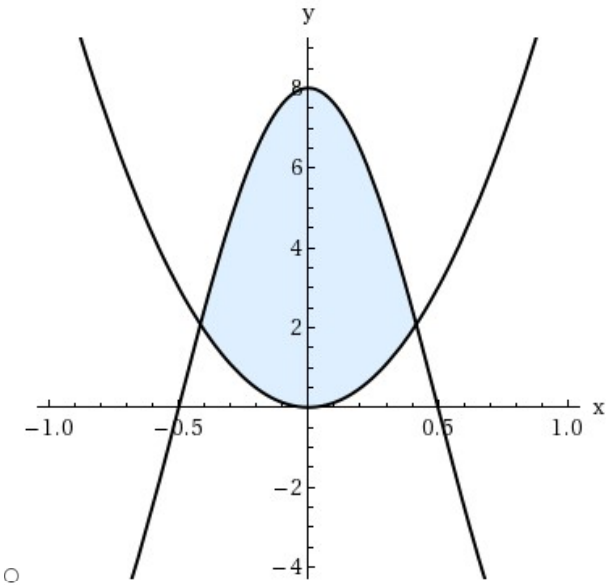
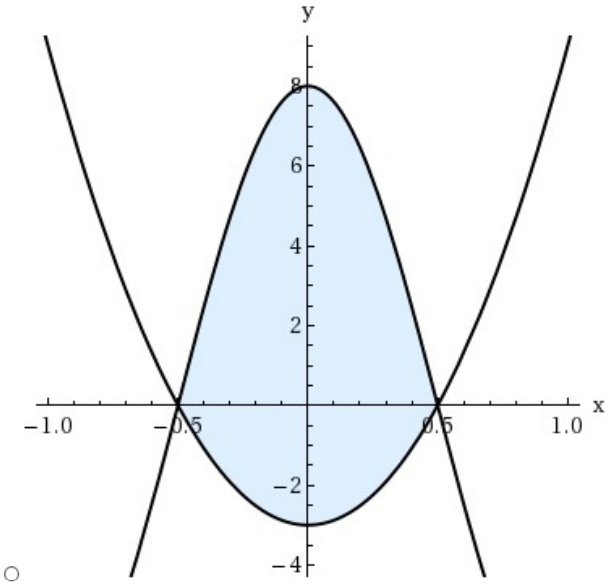
6. –/2 pointsSCalcET8 6.1.019.

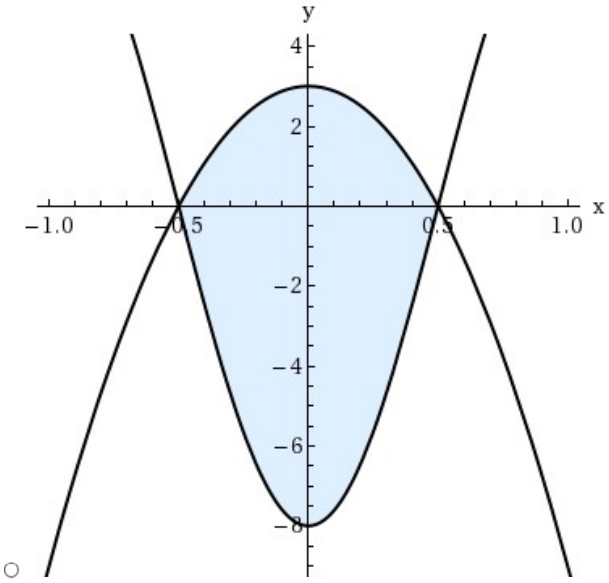
Sketch the region enclosed by the given curves.

$y = 8\cos(\pi x), \quad y = 12x^2 - 3$









Find its area.

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7. –/2 pointsSCalcET8 6.1.033.

Use calculus to find the area A of the triangle with the given vertices.

(0, 0), (5, 6), (1, 8)

$A =$ [ ]

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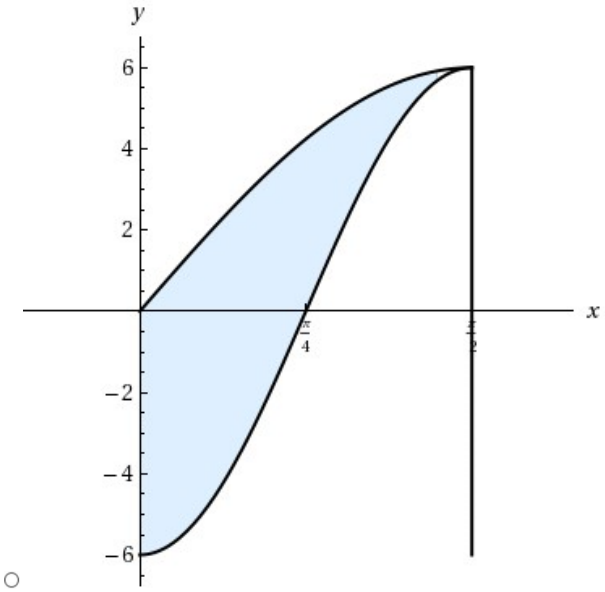
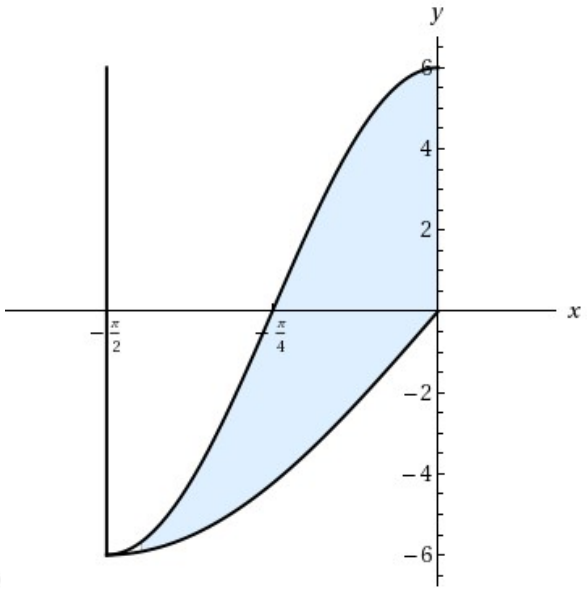
8. –/2 pointsSCalcET8 6.1.035.

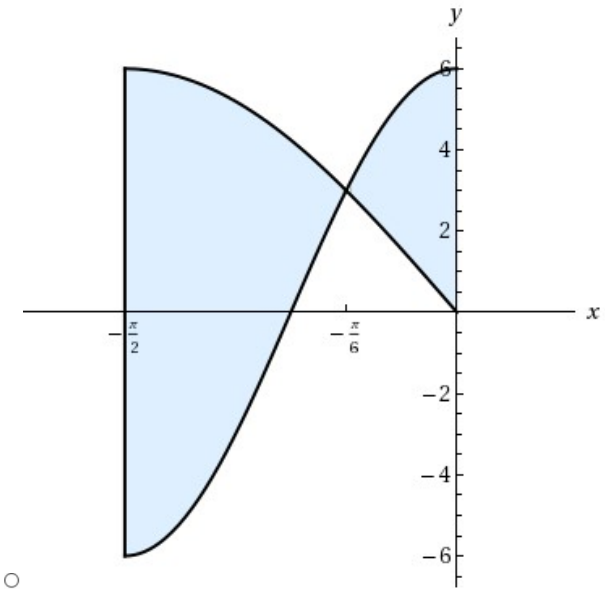
Evaluate the integral and interpret it as the area of a region.

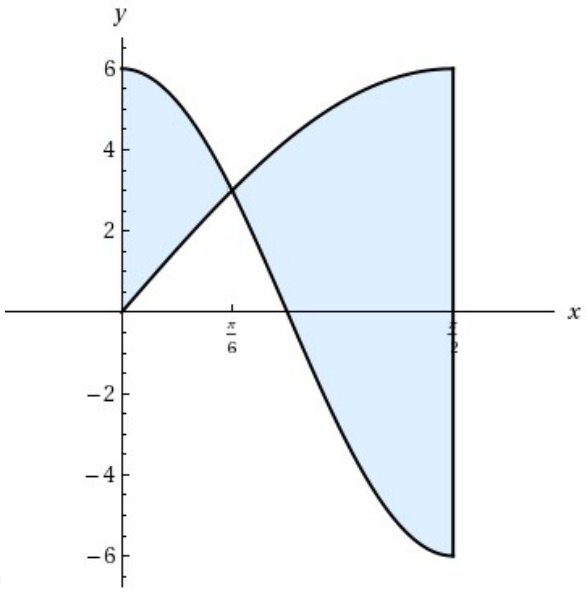
$$\int_0^{\pi/2} |6 \sin(x) - 6 \cos(2x)| \, dx$$

Sketch the region.









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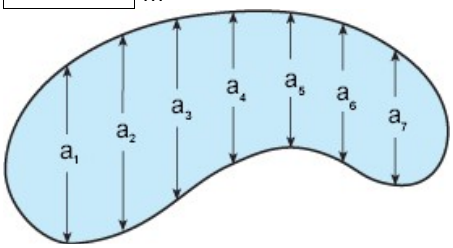
9. –/2 pointsSCalcET8 6.1.048.

The widths (in meters) of a kidney-shaped swimming pool were measured at 1-meter intervals as indicated in the figure. Use the Midpoint Rule with $n = 4$ to estimate the area S of the pool if $a_1 = 18.6$, $a_2 = 21.6$, $a_3 = 20.4$, $a_4 = 16.8$, $a_5 = 15$, $a_6 = 14.4$, and $a_7 = 14.4$.

m^2



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10. –/2 pointsSCalcET8 6.1.059.

Find the values of c such that the area of the region bounded by the parabolas $y = 25x^2 - c^2$ and $y = c^2 - 25x^2$ is 576/5. (Enter your answers as a comma-separated list.)

$c =$

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