WebAssign

Hw 22 (15.5-6): Appl. Double Int.; Surface Area (Homework)

Yinglai Wang MA 261 Fall 2012, section 121, Fall 2012

Instructor: David Daniels

1. 2.85/2.85 points | Previous Answers

SCalcET7 15.5.006.

Find the mass and center of mass of the lamina that occupies the region D and has the given density function ρ .

Due: Thursday, October 18 2012 11:00 PM EDT

D is the triangular region enclosed by the lines x=0, y=x, and 2x+y=6; $\rho(x,y)=$ $4x^2$

$$m =$$

Current Score: 20 / 20



$$(\overline{x}, \overline{y}) =$$

Need Help?

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SCalcET7 15.5.007.

Find the mass and center of mass of the lamina that occupies the region D and has the given density function ρ .

D is bounded by $y = 1 - x^2$ and y = 0; $\rho(x, y) = \frac{7}{k}y$



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m =



 $(\overline{x}, \overline{y}) =$

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SCalcET7 15.5.010.

Find the mass and center of mass of the lamina that occupies the region D and has the given density function ρ .

D is bounded by the parabolas $y = x^2$ and $x = y^2$; $\rho(x, y) = 13\sqrt{x}$



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m =



 $(\overline{x}, \overline{y}) =$

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SCalcET7 15.5.012.

A lamina occupies the part of the disk $x^2 + y^2 \le 16$ in the first quadrant. Find the center of mass of the lamina if the density at any point is proportional to the square of its distance from the origin.

$$(\overline{x}, \overline{y}) = ($$



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5. 2.85/2.85 points | Previous Answers

SCalcET7 15.6.003.

Find the area of the surface.

The part of the plane 13x + 5y + z = 65 that lies in the first octant



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SCalcET7 15.6.005.

Find the area of the surface.

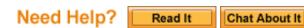
The part of the cylinder $y^2 + z^2 = 9$ that lies above the rectangle with vertices (0, 0), (5, 0), (0, 2), and (5, 2)



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7. 2.9/2.9 points | Previous Answers

SCalcET7 15.6.007.

Find the area of the surface.

The part of the hyperbolic paraboloid $z = y^2 - x^2$ that lies between the cylinders $x^2 + y^2 = 9$ and $x^2 + y^2 = 16$.



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