## Web**Assign**

Current Score: 20 / 20

Hw 20 (15.3): Double Integrals in General Regions (Homework)

Due: Tuesday, October 16 2012 11:00 PM EDT

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

Instructor: David Daniels

1. 2.22/2.22 points | Previous Answers

SCalcET7 15.3.001.

Evaluate the iterated integral.

$$\int_0^4 \int_0^{\sqrt{y}} 3xy^2 \, dx \, dy$$



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2. 2.22/2.22 points | Previous Answers

SCalcET7 15.3.007.

Evaluate the double integral.

$$\iint_D 9y^2 dA, \quad D = \{(x, y) \mid -1 \le y \le 1, -y - 2 \le x \le y\}$$



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#### 3. 2.22/2.22 points | Previous Answers

SCalcET7 15.3.008.

Evaluate the double integral.

$$\iint_{D} \frac{8y}{7x^{5} + 1} dA, \quad D = \{(x, y) \mid 0 \le x \le 1, 0 \le y \le x^{2}\}$$



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# 4. 2.22/2.22 points | Previous Answers

SCalcET7 15.3.017.MI.

Evaluate the double integral.

$$\iint_D 7x \cos y \, dA, \, D \text{ is bounded by } y = 0, \, y = x^2, \, x = 3$$



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#### 5. 2.22/2.22 points | Previous Answers

SCalcET7 15.3.023.

Find the volume of the given solid.

Under the plane x - 2y + z = 6 and above the region bounded by x + y = 1 and  $x^2 + y = 1$ 



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# 6. 2.22/2.22 points | Previous Answers

SCalcET7 15.3.026.

Find the volume of the given solid.

Enclosed by the paraboloid  $z = 3x^2 + 2y^2$  and the planes x = 0, y = 4, y = x, z = 0



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### 7. 2.22/2.22 points | Previous Answers

SCalcET7 15.3.027.

Find the volume of the given solid.

Bounded by the coordinate planes and the plane 7x + 4y + z = 28



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### 8. 2.22/2.22 points | Previous Answers

SCalcET7 15.3.049.

Evaluate the integral by reversing the order of integration.

$$\int_{0}^{2} \int_{3v}^{6} 5e^{x^{2}} dx dy$$



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9. 2.24/2.24 points | Previous Answers

SCalcET7 15.3.059.

Find the average value of f over region D.

f(x, y) = 5xy, D is the triangle with vertices (0, 0), (1, 0), and (1, 4).



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