10/24/12 11:30 PM Hw 23 (15.7): Triple Integrals

WebAssign Hw 23 (15.7): Triple Integrals (Homework)

Yinglai Wang MA 261 Fall 2012, section 121, Fall 2012 Instructor: David Daniels

 Current Score : 20 / 20
 Due : Tuesday, October 23 2012 11:00 PM EDT

The due date for this assignment is past. Your work can be viewed below, but no changes can be made.

Important! Before you view the answer key, decide whether or not you plan to request an extension. Your Instructor may *not* grant you an extension if you have viewed the answer key. Automatic extensions are not granted if you have viewed the answer key.

1. 2/2 points | Previous Answers SCalcET7 15.7.004.

Evaluate the iterated integral.

$$\int_0^1 \int_x^{2x} \int_0^y 16xyz \, dz \, dy \, dx$$





2. 2/2 points | Previous Answers SCalcET7 15.7.007.MI.

Evaluate the iterated integral.

$$\int_{0}^{\pi/2} \int_{0}^{y} \int_{0}^{x} \frac{10}{10} \cos(x + y + z) dz dx dy$$



Flash Player version 10 or higher is required for this auestion.

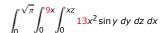
You can get Flash Player free from Adobe's website.



Need Help? Read It Master It Chat About It

3. 2/2 points | Previous Answers SCalcET7 15.7.008.

Evaluate the iterated integral.





Flash Player version 10 or higher is required for this question.

You can get Flash Player free from Adobe's website.



Need Help? Read It Hw 23 (15.7): Triple Integrals 10/24/12 11:30 PM

4. 2/2 points | Previous Answers SCalcET7 15.7.009.

Evaluate the triple integral.

$$\iiint_E y \ dV, \text{ where } E = \{(x, y, z) \mid 0 \le x \le 4, \ 0 \le y \le x, \ x - y \le z \le x + y\}$$



Flash Player version 10 or higher is required for this question.

You can get Flash Player free from Adobe's website.



Need Help? Read It Chat About It

5. 2/2 points | Previous Answers SCalcET7 15.7.013.

Evaluate the triple integral.

 $\iiint 3xy \ dV, \text{ where E lies under the plane } z = 1 + x + y \text{ and above the region in the } xy\text{-plane bounded by the curves } y = \sqrt{x}, \ y = 0, \text{ and } x = 1$



Flash Player version 10 or higher is required for this question.

You can get Flash Player free from Adobe's website.



Need Help? Read It Watch It Chat About It

6. 2/2 points | Previous Answers SCalcET7 15.7.014.

Evaluate the triple integral.

 $\iiint_E 3xy \, dV, \text{ where } E \text{ is bounded by the parabolic cylinders } y = x^2 \text{ and } x = y^2 \text{ and the planes } z = 0 \text{ and } z = 7x + y$



Flash Player version 10 or higher is required for this question.

You can get Flash Player free from Adobe's website.



Need Help? Read It Chat About It

7. 2/2 points | <u>Previous Answers</u> SCalcET7 15.7.015.

Evaluate the triple integral.

 $\iiint_T 8x^2 dV$, where T is the solid tetrahedron with verticies (0, 0, 0), (1, 0, 0), (0, 1, 0), and (0, 0, 1)



Flash Player version 10 or higher is required for this question.

You can get Flash Player free from Adobe's website.



Need Help? Read It Chat About It

Hw 23 (15.7): Triple Integrals 10/24/12 11:30 PM

8. 2/2 points | Previous Answers SCalcET7 15.7.017.MI.

Evaluate the triple integral.

 $\iiint_E \frac{4x \, dV}{}, \text{ where } E \text{ is bounded by the paraboloid } x = \frac{7}{7}y^2 + \frac{7}{7}z^2 \text{ and the plane } x = \frac{7}{7}.$



Flash Player version 10 or higher is required for this question.

You can get Flash Player free from Adobe's website.



Need Help? Read It Watch It Master It Chat About It

9. 2/2 points | Previous Answers SCalcET7 15.7.019.

Use a triple integral to find the volume of the given solid.

The tetrahedron enclosed by the coordinate planes and the plane 3x + y + z = 5



Flash Player version 10 or higher is required for this question.

You can get Flash Player free from Adobe's website.



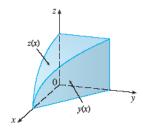
Need Help? Read It Watch It Chat About It

10.2/2 points | Previous Answers SCalcET7 15.7.034.

The figure shows the region of integration for the integral.

$$\int_0^9 \int_0^{81-x^2} \int_0^{9-x} f(x, y, z) \, dy \, dz \, dx$$

Rewrite this integral as an equivalent iterated integral in the five other orders. (Assume y(x) = 9 - x and $z(x) = 81 - x^2$.)



Get ADOBE*
FLASH* PLAYER

Flash Player version 10 or higher is required for this question. You can get Flash Player free from Adobe's website.



Flash Player version 10 or higher is required for this question. You can <u>get Flash Player free from Adobe's website</u>.



Flash Player version 10 or higher is required for this question You can get Flash Player free from Adobe's website.





Flash Player version 10 or higher is required for this question. You can get Flash Player free from Adobe's website.



Flash Player version 10 or higher is required for this question You can get Flash Player free from Adobe's website.



Flash Player version 10 or higher is required for this q You can get Flash Player free from Adobe's website.





Flash Player version 10 or higher is required for this question. You can get Flash Player free from Adobe's website.



Flash Player version 10 or higher is required for this question.



Flash Player version 10 or higher is required for this query you can get Flash Player free from Adobe's website.



Flash Player version 10 or higher is required for this question.



Flash Player version 10 or higher is required for this question. You can get Flash Player free from Adobe's website.



Flash Player version 10 or higher is required for this q You can get Flash Player free from Adobe's website.





****0







Flash Player version 10 or higher is required for this question. You can <u>get Flash Player free from Adobe's website</u>. Flash Player version 10 or higher is required for this question. You can <u>get Flash Player free from Adobe's website</u>.



 \int_0^{\checkmark}



Flash Player version 10 or higher is required for this question.



Flash Player version 10 or higher is required for this question. You can get Flash Player free from Adobe's website.



Flash Player version 10 or higher is required for this qu





Flash Player version 10 or higher is required for this question. You can get Flash Player free from Adobe's website.

ou can <u>det Flash Player free from Adobe's website</u>.







Flash Player version 10 or higher is required for this question. You can <u>get Flash Player free from Adobe's website</u>.





Need Help? Read It Chat About It

