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About this Assignment

Due: **Tue Apr 15 2008 08:00 PDT****1.** SCalcET5 15.3.002. [295311] [Show Details](#)

Evaluate the iterated integral.

$$\int_1^7 \int_y^2 xy \, dx \, dy$$

2. SCalcET5 15.3.004. [295270] [Show Details](#)

Evaluate the iterated integral.

$$\int_0^9 \int_x^{2-x} (x^2 - y) \, dy \, dx$$

3. SCalcET5 15.3.008. [295392] [Show Details](#)

Evaluate the double integral.

$$\iint_D \frac{4y}{x^3 + 2} \, dA, \quad D = \{(x, y) \mid 1 \leq x \leq 2, 0 \leq y \leq 2x\}$$

4. SCalcET5 15.3.018. [349649] [Show Details](#)

Evaluate the double integral.

$$\iint_D ye^x \, dA, \quad D \text{ is the triangular region with vertices } (0,0), (2,4), \text{ and } (6,0).$$

5. SCalcET5 15.3.026. [295391] [Show Details](#)

Find the volume of the given solid.

Bounded by the cylinder $y^2 + z^2 = 4$ and the planes $x = 2y$, $x = 0$, $z = 0$ in the first octant

6. scalcet5 15.3.044.old [295384] [Show Details](#)

[SCalcET5 15.3.044.] Evaluate the integral by reversing the order of integration.

$$\int_0^2 \int_{\sqrt{y}}^{\sqrt{2}} \sqrt{x^3 + 1} \, dx \, dy$$

7. SCalcET5 15.3.056. [295411] [Show Details](#)

Use symmetry to evaluate the following where D is the region bounded by the square with vertices $(\pm 5, 0)$ and $(0, \pm 5)$.

$$\iint_D 2 - 3x + 4y \, dA$$

8. SCalcET5 15.4.014. [295212] [Show Details](#)

Evaluate the given integral by changing to polar coordinates.

$$\iint_R ye^x \, dA, \text{ where } R \text{ is the region in the first quadrant enclosed by the circle } x^2 + y^2 = 25$$

9. SCalcET5 15.4.022. [295431] [Show Details](#)

Use polar coordinates to find the volume of the given solid.

Inside the sphere $x^2 + y^2 + z^2 = 16$ and outside the cylinder $x^2 + y^2 = 4$

10. SCalcET5 15.4.024. [295284] [Show Details](#)

Use polar coordinates to find the volume of the given solid.

Bounded by the paraboloid $z = 10 - 3x^2 - 3y^2$ and the plane $z = 4$

11. SCalcET5 15.4.030. [295355] [Show Details](#)

Evaluate the iterated integral by converting to polar coordinates.

$$\int_{-a}^a \int_0^{\sqrt{a^2-y^2}} (x^2 + y^2)^{3/2} dx dy$$



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12. HW2.4 [540833] [Show Details](#)

Determine $\int_{x=0}^2 \int_{y=x}^2 e^{y^2} dy dx$

 (A numerical answer xx.xx is desired)


13. HW2.3 [540832] [Show Details](#)

Puffin wore a sports shirt to the University Senate today. That was a serious mistake - she underestimated the gravity of the occasion - the other Puffins thought she was not dressed professionally. Find the x coordinate of the center of gravity of the region

$$x^2 + y^2 \leq 4, x \geq 0, y \geq 0.$$

 (A numerical answer xx.xx is desired)


Symbolic::Image

14. HW2.2 [540831] [Show Details](#)

Evaluate the integral

$$\int_{x=0}^{\sqrt{\pi}} \int_{y=x}^{\sqrt{\pi}} \sin(y^2) dy dx$$

(Puffin suggests looking at the problem differently. Perhaps changing the order of integration).



(A numerical answer xx.x is desired)

15. HW2.1 [540830] [Show Details](#)

Puffin was given a large chocolate egg last as a present. The egg is the region R which is bounded by the surfaces $z = x^2 + y^2$ and $z = 18 - x^2 - y^2$. Find the volume of the egg.



(A numerical answer xxx.xx is desired)

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