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← MC 113, section B, Spring 2020

INSTRUCTOR
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15.7 Integrales Triples (Homework)



Assignment Submission & Scoring

Assignment Submission

For this assignment, you submit answers by question parts. The number of submissions remaining for each question part only changes if you submit or change the answer.

Assignment Scoring

Your last submission is used for your score.

The due date for this assignment has passed.

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

SCALCET8 15.6.005.

MY NOTES

ASK YOUR TEACHER

Evaluate the iterated integral.

$$\int_{2}^{4} \int_{0}^{2z} \int_{0}^{\ln(x)} xe^{-y} \, dy \, dx \, dz$$
\$\$763

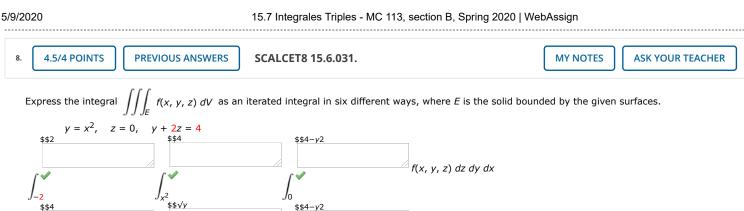
Need Help?

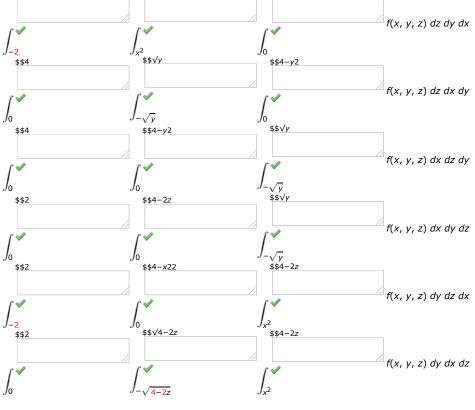
Watch It

Talk to a Tutor

2. 2/2 POINTS PREVIOUS ANSWERS SCALCET8 15.6.007.	MY NOTES	ASK YOUR TEACHER
Evaluate the iterated integral. $\int_0^{\pi} \int_0^2 \int_0^{\sqrt{4-z^2}} z \sin(x) dy dz dx$ \$\$163 Need Help? Talk to a Tutor		
3. 2/2 POINTS PREVIOUS ANSWERS SCALCET8 15.6.009.	MY NOTES	ASK YOUR TEACHER
Evaluate the triple integral. $\iiint_E y \ dV, \text{ where } E = \{(x, y, z) \mid 0 \le x \le 3, \ 0 \le y \le x, \ x - y \le z \le x + y\}$ \$\$272 Need Help? Watch It Talk to a Tutor		
4. 2/2 POINTS PREVIOUS ANSWERS SCALCET8 15.6.013.	MY NOTES	ASK YOUR TEACHER
Evaluate the triple integral. $\iiint_E 5xy \ dV, \text{ where E lies under the plane } z = 1 + x + y \text{ and above the region in the } xy\text{-plane bounde}$ \$\$325168 Need Help? Watch it Talk to a Tutor	ed by the curves	$y = \sqrt{x}$, $y = 0$, and $x = 1$
5. 2/0 POINTS PREVIOUS ANSWERS SCALCET8 15.6.014.	MY NOTES	ASK YOUR TEACHER
Evaluate the triple integral. $\iiint_E (x-y) dV, \text{ where } E \text{ is enclosed by the surfaces } z=x^2-1, z=1-x^2, y=0, \text{ and } y=4$ \$\$-643 Need Help? Talk to a Tutor		

6. 2/2 POINTS PREVIOUS ANSWERS	SCALCET8 15.6.020.	MY NOTES ASK YOUR TEACHER	
Use a triple integral to find the volume of the	e given solid.		
	$y = x^2 + z^2$ and $y = 32 - x^2 - z^2$.		
\$\$256n			
✓.			
Need Help? Talk to a Tutor			
7. 2/2 POINTS PREVIOUS ANSWERS	SCALCET8 15.6.021.	MY NOTES ASK YOUR TEACHER	
Use a triple integral to find the volume of the given solid. The solid enclosed by the cylinder $y = x^2$ and the planes $z = 0$ and $y + z = 1$.			
\$\$815			
✓			
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2/2 POINTS

PREVIOUS ANSWERS

SCALCET8 15.6.502.XP.MI.

MY NOTES

ASK YOUR TEACHER

Evaluate the iterated integral.

$$\int_{0}^{\pi/2} \int_{0}^{y} \int_{0}^{x} 10 \cos(x + y + z) dz dx dy$$
\$\$-103

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	13.7 Integrales Triples - We 110, section B, Op	
10. 2/2 POINTS PREVIOUS ANSWERS	SCALCET8 15.6.505.XP.	MY NOTES ASK YOUR TEACHER
Evaluate the triple integral.		
$\iiint_T \frac{8x^2}{dV}, \text{ where } T \text{ is the solid}$ \$\$860	tetrahedron with verticies (0, 0, 0), (1, 0, 0), (0, 1,	0), and (0, 0, 1)
✓		
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11. 3/0 POINTS PREVIOUS ANSWERS	SCALCET8 15.6.041.	MY NOTES ASK YOUR TEACHER
Find the mass and center of mass of the so	blid E with the given density $ ho.$	
E is the cube $0 \le x \le a$, $0 \le y \le a$	a, $0 \le z \le a$; $\rho(x, y, z) = \frac{5x^2 + 5y^2 + 5z^2}{5}$.	
\$\$5 <i>a</i> 5		
m =		

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\$\$712a, 712a, 712a

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