

## Tutorial: Calculus of Several Variables

- Q1. Given a double integral  $\int_0^{\pi} \int_x^{\pi} (y - \sin x \cos z x) dy dx$ , sketch the integration region  $R$  and evaluate the double integral by reversing the order of integration. (PYQ: May 2018)  
Answer: 9.55
- Q2. Use a double integral to find the volume of the solid enclosed by the cylinders  $y = x^2$ ,  $x = y^2$  and the planes  $z = 0$ ,  $x + y + z = 2$ .  
Answer:  $\frac{11}{30}$
- Q3. Use a triple integral to find the volume of the solid enclosed by the paraboloids  $z = x^2 + y^2$  and  $z = 18 - x^2 - y^2$ .  
Answer:  $81\pi$
- Q4. Find the volume of the solid bounded by the plane  $z = y + 2$  and the cylinder  $x^2 + y^2 = 4$  above the  $xy$ -plane. (PYQ: May 2019)  
Answer:  $8\pi$
- Q5. Find the volume of the solid enclosed by the cylinder  $z + x^2 = 4$  that lies above the plane  $z = 2$  in which  $-3 \leq y \leq 3$ . (PYQ: Jan 2019)  
Answer: 22.63
- Q6. Given two points  $P(6, 3, 1)$  and  $Q(5, 0, 0)$ , find the parametric equations for a smooth curve,  $C: x = 5 + z, y = 3z^2$  that joins the point from  $P$  to  $Q$ . (PYQ: May 2021)  
Answer:  $x = 5 + t, y = 3t^2, z = t$  from  $t = 1$  to  $t = 0$
- Q7. Solve the line integral  $\int_C yz dx - xz dy + xyz dz$  on a particle that moves along the line segment from  $(1, 0, 0)$  to  $(3, 4, 2)$ . (PYQ: May 2019)  
Answer: 9.33
- Q8. Evaluate the line integral  $\int_C (xy + z) dz$  along the line segment  $C$  from  $(1, 2, 3)$  to  $(-1, 1, 5)$ .  
Answer: 12.5
- Q9. Given two points  $A(3, 0)$  and  $B\left(\frac{3}{\sqrt{2}}, \frac{3}{\sqrt{2}}\right)$ , find the work done by the following force field in moving a particle along  $x^2 + y^2 = 9$  from the point  $A$  to  $B$ :  
$$\vec{F} = (x + y)\vec{i} + x^2\vec{j}$$
 (PYQ: Jan 2021)  
Answer: 12.38
- Q10. Given the points  $A(1, 2, 3)$  and  $B(3, 4, 5)$ , find the work done by the force field  $\mathbf{F}(x, y, z) = xy \mathbf{i} + yz \mathbf{j} - xz \mathbf{k}$  on a particle that moves along the line segment from  $A$  to  $B$ . (PYQ: Jan 2019)  
Answer: 20.67
- Q11. Use Green's theorem to evaluate  $\int_C (5xy + x^2 + y^2) dx + (x^2 - y) dy$  where  $C$  is a closed curve that is formed by  $y = x$ ,  $x^2 + y^2 = 4$  and  $y$ -axis for which  $x, y \geq 0$ . (PYQ: Jan 2021)  
Answer: -6.11

# Calculus Of Several Variables Byu Math

**M Tight**



## **Calculus Of Several Variables Byu Math:**

## Unveiling the Magic of Words: A Review of "**Calculus Of Several Variables Byu Math**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Calculus Of Several Variables Byu Math**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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