

## 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  $B$ .  
Answer: 20.67 (PYQ: Jan 2019)
- 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  $x, y \geq 0$ .  
Answer: -6.11 (PYQ: Jan 2021)

# Calculus Several Variables

**Marcel A. Müller**



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