Tutorial: Calculus of Several Variables

Q1. Given a double integral $\int_0^\pi \int_x^\pi (y - \sin x \cos x)\,dy\,dx$, 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: 81π

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: 8π

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 $\int_C (xy + z)\,ds$ 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

J Dewey

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