



Question 1: Answer any THREE of the following [15 Marks]

A) Find the volume of the region D enclosed by the surfaces:

$$z = x^2 + 4y^2 \text{ and } z = 9 - 2x^2 - 2y^2$$

Solution:

The limits of z : $z_1 = x^2 + 4y^2$ to $z_2 = 9 - 2x^2 - 2y^2$

We first equate the two surfaces to find the limits of integration in the y -axis:

$$x^2 + 4y^2 = 9 - 2x^2 - 2y^2 \rightarrow 3x^2 + 6y^2 = 9 \rightarrow x^2 + 2y^2 = 3 \rightarrow y^2 = \frac{3-x^2}{2} \rightarrow y = \pm \sqrt{\frac{3-x^2}{2}}$$

Limits of y : from $-\sqrt{\frac{3-x^2}{2}}$ to $\sqrt{\frac{3-x^2}{2}}$

Setting $y = 0$ in $x^2 + 2y^2 = 3 \rightarrow x = \pm\sqrt{3}$

Limits of x : from $-\sqrt{3}$ to $+\sqrt{3}$

Therefore:

$$\begin{aligned} \text{Volume} &= \int_{-\sqrt{3}}^{\sqrt{3}} \int_{-\sqrt{\frac{3-x^2}{2}}}^{\sqrt{\frac{3-x^2}{2}}} \int_{x^2+4y^2}^{9-2x^2-2y^2} dz \, dy \, dx = \int_{-\sqrt{3}}^{\sqrt{3}} \int_{-\sqrt{\frac{3-x^2}{2}}}^{\sqrt{\frac{3-x^2}{2}}} z \Big|_{x^2+4y^2}^{9-2x^2-2y^2} dy \, dx \\ &= \int_{-\sqrt{3}}^{\sqrt{3}} \int_{-\sqrt{\frac{3-x^2}{2}}}^{\sqrt{\frac{3-x^2}{2}}} (9 - 2x^2 - 2y^2 - x^2 - 4y^2) dy \, dx = \int_{-\sqrt{3}}^{\sqrt{3}} \int_{-\sqrt{\frac{3-x^2}{2}}}^{\sqrt{\frac{3-x^2}{2}}} 3(3 - x^2 - 2y^2) dy \, dx \\ &= \int_{-\sqrt{3}}^{\sqrt{3}} 3(3 - x^2)y - 2y^3 \Big|_{-\sqrt{\frac{3-x^2}{2}}}^{\sqrt{\frac{3-x^2}{2}}} dx \\ &= \int_{-\sqrt{3}}^{\sqrt{3}} 3(3 - x^2) \sqrt{\frac{3-x^2}{2}} - 2 \left(\sqrt{\frac{3-x^2}{2}} \right)^3 + 3(3 - x^2) \sqrt{\frac{3-x^2}{2}} + 2 \left(-\sqrt{\frac{3-x^2}{2}} \right)^3 dx \\ &= \int_{-\sqrt{3}}^{\sqrt{3}} \frac{6}{\sqrt{2}} (3 - x^2)^{\frac{3}{2}} - \frac{2}{\sqrt{2}} (3 - x^2)^{\frac{3}{2}} dx = 2\sqrt{2} \int_{-\sqrt{3}}^{\sqrt{3}} (3 - x^2)^{\frac{3}{2}} dx \end{aligned}$$

Let $x = \sqrt{3} \sin u \rightarrow dx = \sqrt{3} \cos u \, du$

Limits of integration: $\pm\sqrt{3} = \sqrt{3} \sin u \rightarrow u = \sin^{-1}(\pm 1) \rightarrow u = \pm \frac{\pi}{2}$

Thus:

$$\begin{aligned} \text{Volume} &= 2\sqrt{2} \int_{-\pi/2}^{\pi/2} (3 - 3 \sin^2 u)^{\frac{3}{2}} \sqrt{3} \cos u \, du = 6\sqrt{6} \int_{-\pi/2}^{\pi/2} \cos^4 u \, du = 6\sqrt{6} \int_{-\pi/2}^{\pi/2} \left(\frac{1 + \cos 2u}{2} \right)^2 du \\ &= \frac{3}{2} \sqrt{6} \int_{-\pi/2}^{\pi/2} (1 + 2 \cos 2u + \cos^2 2u) du = \frac{3}{2} \sqrt{6} \int_{-\pi/2}^{\pi/2} \left(1 + 2 \cos 2u + \frac{1 + \cos 4u}{2} \right) du \\ &= \frac{3}{2} \sqrt{6} \left(\frac{3}{2} u \Big|_{-\pi/2}^{\pi/2} + \sin 2u \Big|_{-\pi/2}^{\pi/2} + \frac{1}{8} \sin 4u \Big|_{-\pi/2}^{\pi/2} \right) = \frac{3}{2} \sqrt{6} \frac{3}{2} (\pi) = \frac{9\sqrt{6}}{4} \pi \end{aligned}$$

Mathematical Solution Of Eng Problems

Terry C. Jones



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