

Quiz - II : Question 3

Time: 6:30 - 6:45 pm

Q 3. Let C be the cone generated by revolving the line $y = \frac{x}{\sqrt{8}}$ starting from $(0, 0)$ around y -axis. Let S be the solid sphere of radius 3 i.e., $x^2 + y^2 + z^2 \leq 9$. Find the volume of the portion of S that lies inside C .

[6]