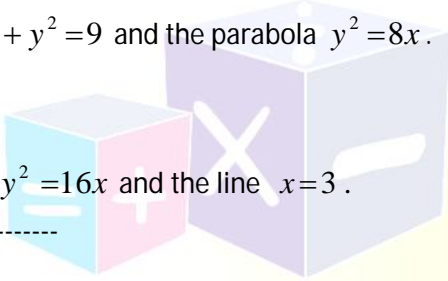


TOPIC:” APPLICATION OF INTEGRATION”

1. Find the volume of the solid generated , when the area between ellipse $4x^2 + 9y^2 = 36$ and the chord AB, with $A \equiv (3,0)$, $B \equiv (0,2)$; is revolved about X-axis.
2. Find the area of sector of circle bounded by $x^2 + y^2 = 16$ and the line $y = x$. in the first quadrant .
3. Find the area of the region bounded by the curve $y = \sin x$ the lines $x = -\frac{\pi}{2}$, $x = \frac{\pi}{2}$ and X-axis.
4. Find the area of the region bounded by the curves. $y^2 = 4x$ and $4x^2 + 4y^2 = 9$ with $x \geq 0$.
5. Find the area of the region common to the circle $x^2 + y^2 = 9$ and the parabola $y^2 = 8x$.
6. Find the area of the region bounded by the parabola $y^2 = 16x$ and the line $x = 3$.

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