

Exercise # 13.3

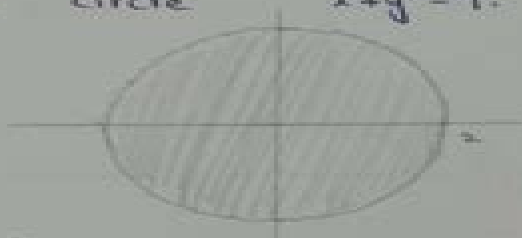
(13)

$$\iint_R (x^2 + y^2)^{3/2} dA$$

R is bounded by the circle $x^2 + y^2 = 4$.

Sol.

Replace x, y, dA with $r \cos \theta, r \sin \theta, r dr d\theta$ respectively.



$$\iint_R (x^2 + y^2)^{3/2} dA = \int_0^{2\pi} \int_0^2 (r^2)^{3/2} r dr d\theta$$

$$= \int_0^{2\pi} \int_0^2 r^4 dr d\theta$$

Answers

$$0 \leq r \leq 2$$

$$0 \leq \theta \leq 2\pi$$

$$= \int_0^{2\pi} \left[\frac{r^5}{5} \right]_0^2 d\theta = \frac{1}{5} \int_0^{2\pi} 32 d\theta = \frac{32}{5} [\theta]_0^{2\pi} = \frac{64\pi}{5}$$

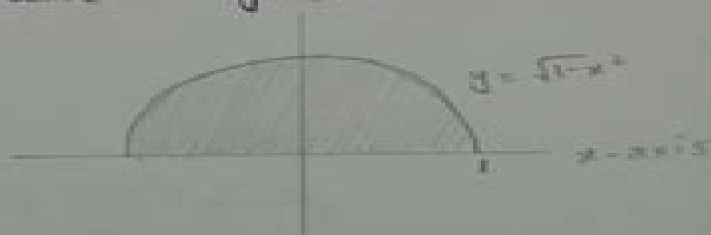
(14)

$$\iint_R x^2 (x^2 + y^2)^3 dA$$

R is bounded by the semicircle $y = \sqrt{1-x^2}$ and x -axis.

Sol.

But $x = r \cos \theta, y = r \sin \theta$
 $dA = r dr d\theta$



$$\iint_R x^2 (x^2 + y^2)^3 dA = \int_0^\pi \int_0^1 r^2 \cos^2 \theta (r^2)^3 r dr d\theta$$

$$= \int_0^\pi \int_0^1 r^9 \cos^2 \theta dr d\theta = \int_0^\pi \left[\frac{r^{10}}{10} \cos^2 \theta \right]_0^1 d\theta$$

$$0 \leq r \leq 1$$

$$0 \leq \theta \leq \pi$$

$$= \frac{1}{10} \int_0^\pi \cos^2 \theta d\theta = \frac{1}{10} \int_0^\pi \frac{1 + \cos 2\theta}{2} d\theta = \frac{1}{20} \left[\theta + \frac{\sin 2\theta}{2} \right]_0^\pi$$

$$= \frac{1}{20} \pi$$

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