

2tt (radius) (height use Shell Method to Exp/Find the volume of the solid generaled by revolving the region bounded by Dy=Jx, x-axis, x=4 about x-axis V= Sam (shell) (shell) do = (711 (y) (y-3)dy = 2TT \ (4y-y3) dy $= 2\pi \left(2y^{2} - \frac{y^{4}}{4}\right)^{2} = --- =$ V) y=Jx, x-axis, about y-axis 1= (Shell) (shell) Uploaded By: Malak Obaid STUDENTS-HUB.com

$$V = \int_{2\pi}^{5} \left(\begin{array}{c} \text{Shelf} \\ \text{radius} \end{array} \right) \left(\begin{array}{c} \text{Shelf} \\ \text{height} \end{array} \right) dx$$

$$= \int_{2\pi}^{5} 2\pi \left(\begin{array}{c} \text{X} \\ \text{X} \end{array} \right) dx$$

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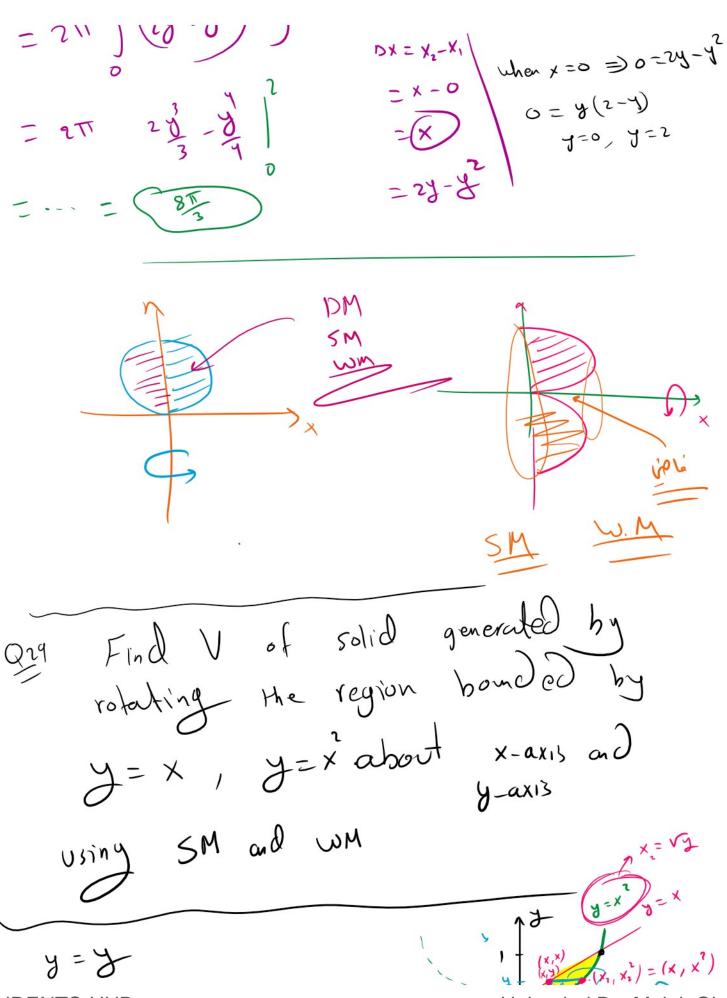
$$= \int_{2\pi}^{5} 2\pi \left(\begin{array}{c}$$

$$= 2\pi \int_{0}^{\infty} (2x - x^{2} - x^{2}) dx = 2\pi (x - \frac{2}{3} - \frac{4}{7})$$

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$$= 2\pi \int_{0}^{\infty} (x - x^{2}) dx = 2\pi \int_{0}^{\infty} (x - x^{2$$



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