





2tt (radius) (height use Shell Method to Exp/Find the volume of the solid generated by revolving the region bounded by Dy=Jx, x-axis, x=4 about x-axis V= Sam shell shell length dy = (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: Jibreel Bornat

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$$V = \int_{2\pi}^{3} \left(\frac{\sinh y}{\cosh y} \right) \left(\frac{\sinh y}{\cosh y} \right) dx$$

$$= \int_{2\pi}^{3} 2\pi \left(\frac{x}{x} \right) \left(\frac{x}{x} \right) dx$$

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$$= \int_{2\pi}^{3} 2\pi \left(\frac{$$

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

$$= 2\pi \left((1 - \frac{1}{3} - \frac{1}{4})\right) = \frac{5\pi}{6}$$

$$= 2\pi \left(\frac{1}{3} - \frac{1}{4}\right) = \frac{5\pi}{6}$$

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$$= 2\pi \left(\frac{1}{3} - \frac{1}{4}\right) = \frac{1}{3} - \frac{1}{3} = \frac{1}{3} - \frac{1}{4} = \frac{1}{3}$$

$$= -\left(\frac{1}{3} - \frac{1}{3}\right) = \frac{1}{3} - \frac{1}{3} = \frac{1}{3} - \frac{1}{3} = \frac{1}{3} - \frac{1}{3} = \frac{1}{3} =$$









