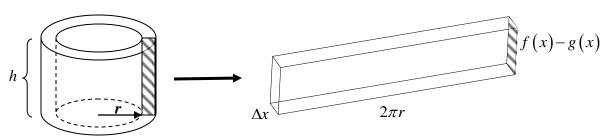
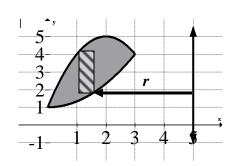
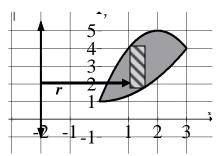
Volume of Revolution: Cylindrical Shells Method

$$V = \int_{x_1}^{x_2} 2\pi \cdot \text{radius} \cdot \text{height} \cdot dx_{\mathbf{Or}} \quad V = \int_{y_1}^{y_2} 2\pi \cdot \text{radius} \cdot \text{height} \cdot dy$$

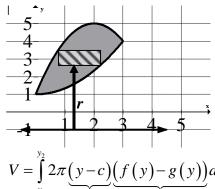




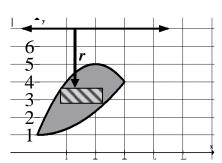
Vertical Axis of Revolution



$$V = \int_{x_1}^{x_2} 2\pi \underbrace{(x-c)}_{\text{radius}} \underbrace{\left(f(x) - g(x)\right)}_{\text{height}} dx$$



Horizontal Axis of Revolution



$$V = \int_{y_1}^{y_2} 2\pi \underbrace{\left(c - y\right)}_{\text{radius}} \underbrace{\left(f\left(y\right) - g\left(y\right)\right)}_{\text{height}} dy$$

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