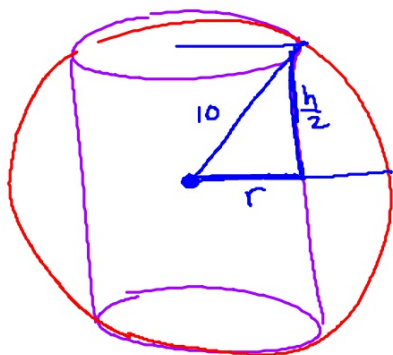


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$$r^2 + \left(\frac{h}{2}\right)^2 = 10^2$$

$$r^2 = 100 - \frac{h^2}{4}$$

$$V = \pi r^2 h$$

$$V = \pi \left(100 - \frac{h^2}{4}\right) h$$

$$V = \pi \left(100h - \frac{h^3}{4}\right)$$