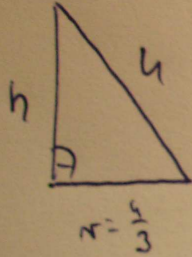
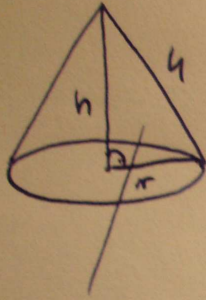


2AD



$$V = ? \quad V_{\text{störus}} = \frac{1}{3} P_{\text{podur}} \cdot h$$

$$P_{\text{bolu}} = 3 P_{\text{podur}} \rightarrow \pi r l = 3 \pi r^2$$

$$P_{\text{bolu}} = \pi \cdot r \cdot l$$

$$P_{\text{podur}} = \pi r^2$$

$$4\pi = 3\pi r : 3\pi$$

$$r = \frac{4}{3}$$

$$P_{\text{podur}} = \pi \cdot \left(\frac{4}{3}\right)^2 = \frac{16\pi}{9}$$

~ TLK. PITAGORAS

$$h^2 = l^2 - \left(\frac{4}{3}\right)^2$$

$$h^2 = 16 - \frac{16}{9}$$

$$h^2 = \frac{144 - 16}{9}$$

$$h^2 = \frac{128}{9}$$

$$h = \sqrt{\frac{128}{9}} = \frac{8\sqrt{2}}{3}$$

$$V = \frac{1}{3} P_{\text{podur}} \cdot h =$$

$$= \frac{1}{3} \cdot \frac{16\pi}{9} \cdot \frac{8\sqrt{2}}{3} = \frac{128\sqrt{2}\pi}{81}$$