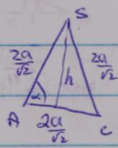


3.18
8

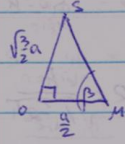


$$AC = 2R = \sqrt{AB^2 + a^2} = \sqrt{2}a \rightarrow R = \frac{a}{\sqrt{2}}$$



$$h = \frac{\sqrt{3}}{2} \cdot \frac{2a}{\sqrt{2}} = \sqrt{\frac{3}{2}}a$$

הוא הכולל את α
 הנוצרת מהקו $\frac{1}{3}$ = (אם נניח שהקו הוא $\frac{1}{3}$)



$$\tan \beta = \frac{\sqrt{\frac{3}{2}}a}{\frac{a}{2}} = \sqrt{6}$$

$$V = \pi \left(\frac{a}{\sqrt{2}}\right)^2 \cdot \sqrt{\frac{3}{2}}a = \frac{\sqrt{6} \pi a^3}{4}$$