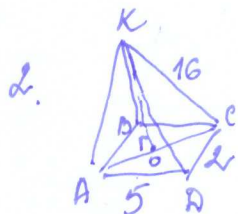


$$V = abc$$

т.к. основание квадрат.

$$V = 2 \cdot 2 \cdot 2 = 8$$



$$V = \frac{1}{3} Sh$$

$$S_{\text{осн.}} = 5 \cdot 2 = 10$$

$$AC^2 = AD^2 + DC^2$$

$$AC^2 = 25 + 4 = 29 \Rightarrow OC = \frac{\sqrt{29}}{2}$$

ΔKOC - прямоугольн.

$$KC^2 = OC^2 + KO^2$$

$$KO^2 = KC^2 - OC^2$$

$$KO^2 = 16^2 - \left(\frac{\sqrt{29}}{2}\right)^2 = 256 - \frac{29}{4} = 248,75$$

$$KO = 15,77$$

$$V = \frac{1}{3} \cdot 10 \cdot 15,77 \approx 52,57$$

3. $V = S_{\text{осн.}} \cdot H = \pi R^2 H$

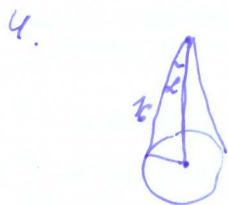
$$R = 6\pi$$

т.к. равносторонний

$$H = 2R = 2 \cdot 6\pi = 12\pi$$

$$S_{\text{осн.}} = \pi R^2 = \pi \cdot (6\pi)^2 = 36\pi^3$$

$$V = 36\pi^3 \cdot 12\pi = 432\pi^4$$



$$\sin \alpha = \frac{R}{16}$$

$$\cos \alpha = \frac{H}{16}$$

$$R = 16 \cdot \sin \alpha$$

$$H = 16 \cdot \cos \alpha$$

$$S_{\text{осн.}} = \pi R^2 = \pi \cdot (16 \cdot \sin \alpha)^2$$

$$V = \frac{1}{3} \cdot \pi (16 \sin \alpha)^2 \cdot 16 \cdot \cos \alpha$$