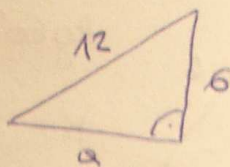
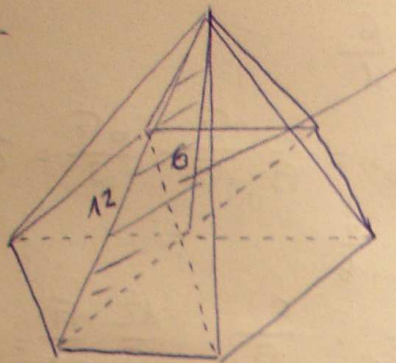


2AD d



2 TL. PITAGORASA

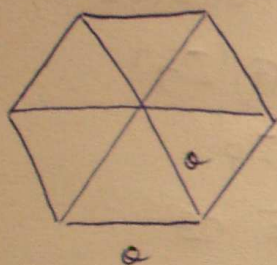
$$a^2 = 12^2 - 6^2$$

$$a^2 = 144 - 36$$

$$a^2 = 108$$

$$a = \sqrt{108} = 6\sqrt{3}$$

PODSTAWA



$$P_{\text{podst}} = 6 \cdot P_{\text{trójkąt.}}.$$

$$P_{\text{trójkąt.}} = \frac{a^2 \sqrt{3}}{4} =$$

$$= \frac{(6\sqrt{3})^2 \cdot \sqrt{3}}{4} =$$

$$= \frac{108\sqrt{3}}{4} = 27\sqrt{3}$$

$$P_{\text{podst}} = 6 \cdot 27\sqrt{3} = 162\sqrt{3}$$

$$\underline{\underline{V = \frac{1}{3} P_{\text{podst}} \cdot h = \frac{1}{3} \cdot 162\sqrt{3} \cdot 6 = 324\sqrt{3}}}$$

OK



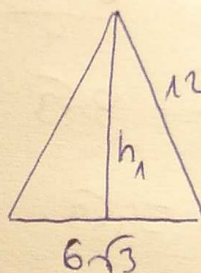
TRÓJKĄT BOCZNY

2 TL. PITAGORASA

$$h_1^2 = 12^2 - (3\sqrt{3})^2$$

$$h_1^2 = 144 - 27$$

$$h_1 = \sqrt{117} = 3\sqrt{13}$$



$$P_{\text{bok.}} = \frac{1}{2} \cdot 6\sqrt{3} \cdot 3\sqrt{13} = 9\sqrt{39}$$

$$\underline{\underline{P_{\text{całk.}} = P_{\text{podst}} + 6 P_{\text{bok.}} =}}$$

$$= 162\sqrt{3} + 6 \cdot 9\sqrt{39} =$$

$$= 162\sqrt{3} + 54\sqrt{39} =$$

$$\underline{\underline{= 54\sqrt{3} (3 + \sqrt{13})}}$$