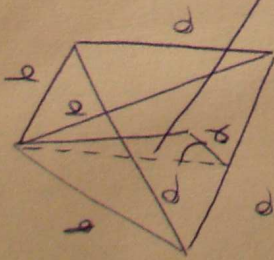


ZAD

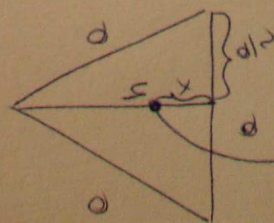
DANE:  $b, \alpha$

$P_{\text{podst.}}; P_{\text{pozi. base.}} = 2$



PODSTAWA

" h" z TW. PITAGORASA



$$\begin{aligned} \hat{h}^2 &= a^2 - \frac{a^2}{4} \\ \hat{h} &= \frac{\sqrt{3a^2 - a^2}}{2} = \frac{a\sqrt{3}}{2} \\ h &= \sqrt{\frac{3a^2}{4} - \frac{a^2}{4}} = \frac{a\sqrt{3}}{2} \end{aligned}$$

SRODEK I WYSOKOSC TRZECIĄTKA I PROJEKCYJA PODSTAWY I PROPORCJA

2:1

$$x = \frac{h}{3}$$

$$x = \frac{a\sqrt{3}}{6}$$

$$\cos \alpha = \frac{x}{h_1}$$

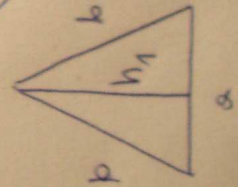
$$x = h_1 \cos \alpha$$

$$\frac{a\sqrt{3}}{6} = h_1 \cos \alpha = |\cos \alpha|$$

$$h_1 = \frac{a\sqrt{3}}{6 \cos \alpha}$$

TRZĘCIĄTKI ROZCINIĆ

2 TW. PITAGORASA



$$\begin{aligned} h_1^2 &= b^2 - \frac{a^2}{4} \\ \left(\frac{a\sqrt{3}}{6 \cos \alpha}\right)^2 &= b^2 - \frac{a^2}{4} \end{aligned}$$

$$\begin{aligned} P_{\Delta \text{bocz.}} &= 2a \cdot h_1 = \\ &= \frac{1}{2} a \cdot \frac{a\sqrt{3}}{6 \cos \alpha} = \frac{a^2 \sqrt{3}}{12 \cos \alpha} \end{aligned}$$