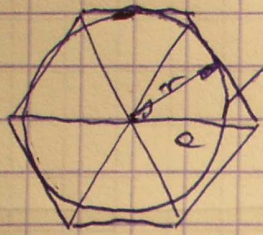


ZAD 25



$$\text{obw} = 2\pi r$$

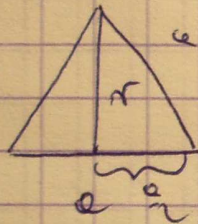
$$4\pi = 2\pi r \quad : 2\pi$$

$$\text{obw} = 4\pi$$

$$\underline{r = 2}$$

r - KRÓLEWIEGO KŁÓDZIEJ NIEJEST NIEJEST
 WYSOKOŚĆ TRÓJNĄTĄ NIEJEST NIEJEST
 KŁÓDZIEJ NIEJEST $\frac{1}{6}$ POŁA SIECZOWANIA

CYTU



~ TL. PITAGORASJA

$$a^2 - \frac{a^2}{4} = r^2$$

$$\frac{3a^2}{4} = 2^2$$

$$\frac{3a^2}{4} = 4 \quad : \frac{3}{4}$$

$$a^2 = 4 - \frac{4}{3}$$

$$a = \sqrt{\frac{16}{3}} = \frac{4}{\sqrt{3}} - \frac{\sqrt{3}}{\sqrt{3}} = \frac{4\sqrt{3}}{3}$$

$$\begin{aligned} P_{\Delta \text{obw}} &= \frac{a^2 \sqrt{3}}{4} = \\ &= \frac{\left(\frac{4\sqrt{3}}{3}\right)^2 \cdot \sqrt{3}}{4} = \\ &= \frac{\frac{48}{9} \cdot \sqrt{3}}{4} = \frac{48\sqrt{3}}{9 \cdot 4} = \\ &= \frac{12\sqrt{3}}{3} = \frac{4\sqrt{3}}{3} \end{aligned}$$

$$P_{\square} = 6 \cdot P_{\Delta \text{obw}} = 6 \cdot \frac{4\sqrt{3}}{3} = 8\sqrt{3}$$