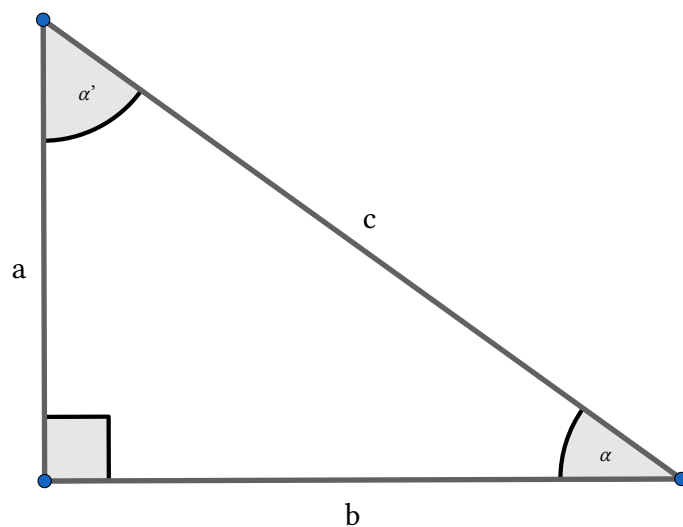


059-PISAREK



$$a^2 - 6ab - 7b^2 = 0$$

wyznaczyć $\operatorname{tg} \alpha$, $\operatorname{tg} \alpha'$ oraz uzasadnić, że $P_{\Delta} = \frac{1}{14}a^2$

$\mathbb{D} : \alpha \in (0^\circ, 90^\circ); \quad a, b, c \in \mathbb{R}_+$

$$a^2 - 6ab - 7b^2 = 0$$

$$(a - 7b)(a + b) = 0$$

$$a = 7b \quad \vee \quad a = -b \notin \mathbb{D}$$

$$a = 7b$$

$$\operatorname{tg} \alpha = \frac{a}{b} = 7$$

$$\operatorname{tg} \alpha' = \frac{b}{a} = \frac{1}{7}$$

$$\text{zatem } P_{\Delta} = \frac{1}{2}ab = \frac{1}{2}a \cdot \frac{1}{7}a = \frac{1}{14}a^2 \iff T$$