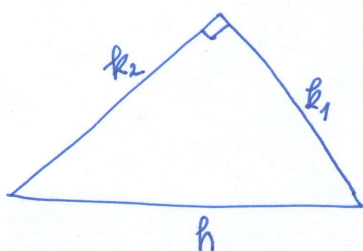


RAČUNANJE STRANIC PRAVOKOTNEGA TRIKOTNIKA



$$h^2 = k_1^2 + k_2^2 \rightarrow h = \sqrt{k_1^2 + k_2^2}$$

$$k_1^2 = h^2 - k_2^2 \rightarrow k_1 = \sqrt{h^2 - k_2^2}$$

$$k_2^2 = h^2 - k_1^2 \rightarrow k_2 = \sqrt{h^2 - k_1^2}$$

- ① V pravokotnem trikotniku merita kateti 5 cm in 12 cm. Izračunaj obseg in ploščino trikotnika.

$$k_1 = 5 \text{ cm}$$

$$k_2 = 12 \text{ cm}$$

$$\sigma = ? , \mu = ?$$

$$h^2 = k_1^2 + k_2^2$$

$$h^2 = 5^2 + 12^2$$

$$h^2 = 25 + 144$$

$$h^2 = 169$$

$$h = \sqrt{169}$$

$$\underline{\underline{h = 13 \text{ cm}}}$$

$$\sigma = k_1 + k_2 + h$$

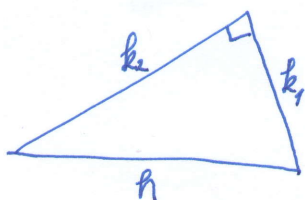
$$\sigma = 5 + 12 + 13$$

$$\underline{\underline{\sigma = 30 \text{ cm}}}$$

$$\mu = \frac{k_1 \cdot k_2}{2}$$

$$\mu = \frac{5 \cdot 12}{2}$$

$$\underline{\underline{\mu = 30 \text{ cm}^2}}$$



- ② V pravokotnem trikotniku meri hipotenuza 17 m, ena od katet pa 15 m. Koliko meri druga kateta

$$h = 17 \text{ m}$$

$$k_1 = 15 \text{ m}$$

$$k_2 = ?$$

$$k_2^2 = h^2 - k_1^2$$

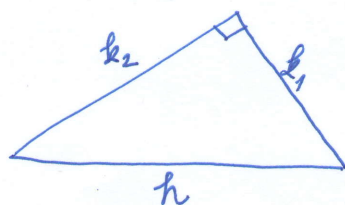
$$k_2^2 = 17^2 - 15^2$$

$$k_2^2 = 289 - 225$$

$$k_2^2 = 64$$

$$k_2 = \sqrt{64}$$

$$\underline{\underline{k_2 = 8 \text{ m}}}$$



Ozpišisi se podatke na maloge 3č in 4č, d v učbeniku na strani 182, ker jih bomo rešili skupaj, uporabi tudi skico.