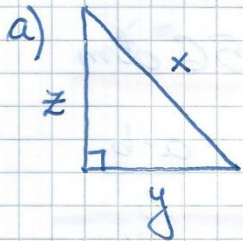


3. URA - RAČUNANJE V PRAVOKOTNEM TRIKOTNIKU - REŠITVE

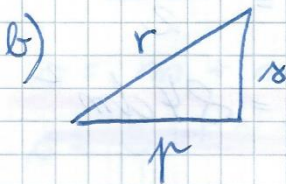
U str. 182/1



$$x^2 = z^2 + y^2$$

x = HIPOTENUZA

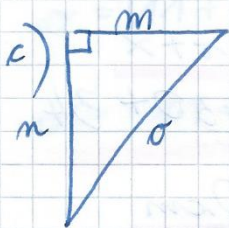
z, y = KATETI



$$r^2 = s^2 + p^2$$

r = HIPOTENUZA

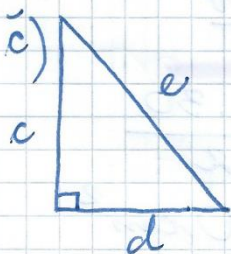
s, p = KATETI



$$o^2 = m^2 + m^2$$

o = HIPOTENUZA

m, m = KATETI



$$e^2 = c^2 + d^2$$

e = HIPOTENUZA

c, d = KATETI

U str. 182/3

a) $t = 6 \text{ cm}$

$m = 8 \text{ cm}$

$x = ?$

$$x^2 = t^2 + m^2$$

$$x^2 = 6^2 + 8^2$$

$$x^2 = 36 + 64$$

$$x^2 = 100$$

$$x = \sqrt{100}$$

$$x = 10 \text{ cm}$$

$$o = x + t + m$$

$$o = 10 + 6 + 8$$

$$o = 24 \text{ cm}$$

$$p = \frac{t \cdot m}{2}$$

$$p = \frac{6 \cdot 8}{2} = 24 \text{ cm}^2$$

$$b) \quad \begin{array}{l} a = 7 \text{ dm} \\ b = 24 \text{ dm} \\ \hline x = \end{array}$$

$$\begin{aligned} x^2 &= a^2 + b^2 \\ x^2 &= 7^2 + 24^2 \\ x^2 &= 49 + 576 \\ x^2 &= 625 \\ x &= \sqrt{625} \\ x &= 25 \text{ dm} \end{aligned}$$

$$\begin{aligned} \sigma &= a + b + x \\ \sigma &= 7 + 24 + 25 \\ \sigma &= 56 \text{ dm} \end{aligned}$$

$$\begin{aligned} \mu &= \frac{a \cdot b}{2} \\ \mu &= \frac{7 \cdot 24}{2} \\ \mu &= 84 \text{ dm}^2 \end{aligned}$$

$$c) \quad \begin{array}{l} u = 16 \text{ cm} \\ v = 30 \text{ cm} \\ \hline x = \end{array}$$

$$\begin{aligned} x^2 &= u^2 + v^2 \\ x^2 &= 16^2 + 30^2 \\ x^2 &= 256 + 900 \\ x^2 &= 1156 \\ x &= \sqrt{1156} \\ x &= 34 \text{ cm} \end{aligned}$$

$$\begin{aligned} \sigma &= u + v + x \\ \sigma &= 16 + 30 + 34 \\ \sigma &= 80 \text{ cm} \end{aligned}$$

$$\begin{aligned} \mu &= \frac{u \cdot v}{2} \\ \mu &= \frac{16 \cdot 30}{2} \\ \mu &= 240 \text{ cm}^2 \end{aligned}$$

$$\checkmark) \quad \begin{array}{l} x = 2 \text{ dm} = 20 \text{ cm} \\ y = 21 \text{ cm} \\ \hline z = \end{array}$$

$$\begin{aligned} z^2 &= x^2 + y^2 \\ z^2 &= 20^2 + 21^2 \\ z^2 &= 400 + 441 \\ z^2 &= 841 \\ z &= \sqrt{841} \\ z &= 29 \text{ cm} \end{aligned}$$

$$\begin{aligned} \sigma &= x + y + z \\ \sigma &= 20 + 21 + 29 \\ \sigma &= 70 \text{ cm} \end{aligned}$$

$$\begin{aligned} \mu &= \frac{x \cdot y}{2} \\ \mu &= \frac{20 \cdot 21}{2} \\ \mu &= 210 \text{ cm}^2 \end{aligned}$$

d) $m = 5 \text{ cm}$
 $n = \sqrt{11} \text{ cm}$
 $x =$

$$x^2 = m^2 + n^2$$
$$x^2 = 5^2 + (\sqrt{11})^2$$

$$x^2 = 25 + 11$$

$$x^2 = 36$$

$$x = \sqrt{36}$$

$$x = 6 \text{ cm}$$

$$\sigma = m + n + x$$

$$\sigma = 5 + \sqrt{11} + 6$$

$$\sigma = (11 + \sqrt{11}) \text{ cm}$$

$$\sigma \approx 11 + 3,32 \approx 14,32 \text{ cm}$$

$$\mu = \frac{m \cdot n}{2}$$

$$\mu = \frac{5 \cdot \sqrt{11}}{2}$$

$$\mu = 2,5 \cdot \sqrt{11} \text{ cm}^2$$

$$\mu \approx 2,5 \cdot 3,32$$

$$\mu \approx 8,3 \text{ cm}^2$$