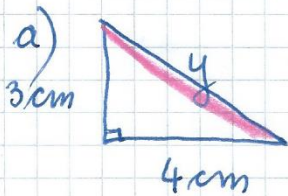


4. URA - RACUNANJE KATETE - RESITVE

U sh. 182/2



$$y^2 = 3^2 + 4^2$$

$$y^2 = 9 + 16$$

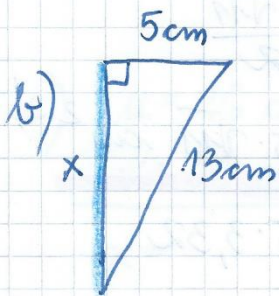
$$y^2 = 25$$

$$y = \sqrt{25}$$

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

RACUNAM

HIPOTENUZU,



$$x^2 = 13^2 - 5^2$$

$$x^2 = 169 - 25$$

$$x^2 = 144$$

$$x = \sqrt{144}$$

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

RACUNAM

KATETO.

U sh. 182/4

a)

$$c = 17 \text{ cm}$$

$$a = 8 \text{ cm}$$

$$x =$$

$$x^2 = c^2 - a^2$$

$$x^2 = 17^2 - 8^2$$

$$x^2 = 289 - 64$$

$$x^2 = 225$$

$$x = \sqrt{225}$$

$$x = 15 \text{ cm}$$

$$\sigma = a + c + x$$

$$\sigma = 8 + 17 + 15$$

$$\sigma = 40 \text{ cm}$$

$$p = \frac{a \cdot x}{2}$$

$$p = \frac{8 \cdot 15}{2}$$

$$p = 60 \text{ cm}^2$$

$$p = 60 \text{ cm}^2$$

$$b) \quad s = 101 \text{ cm}$$

$$r = 99 \text{ cm}$$

$$x =$$

$$x^2 = s^2 - r^2$$

$$x^2 = 101^2 - 99^2$$

$$x^2 = 10201 - 9801$$

$$x = 400$$

$$x = \sqrt{400}$$

$$x = 20 \text{ cm}$$

$$o = s + r + x$$

$$o = 101 + 99 + 20$$

$$o = 220 \text{ cm}$$

$$p = \frac{r \cdot x}{2}$$

$$p = \frac{99 \cdot 20}{2}$$

$$p = 990 \text{ cm}^2$$

$$c) \quad t = 37 \text{ dm}$$

$$u = 12 \text{ dm}$$

$$x =$$

$$x^2 = t^2 - u^2$$

$$x^2 = 37^2 - 12^2$$

$$x^2 = 1369 - 144$$

$$x^2 = 1225$$

$$x = \sqrt{1225}$$

$$x = 35 \text{ dm}$$

$$o = t + u + x$$

$$o = 37 + 12 + 35$$

$$o = 84 \text{ dm}$$

$$p = \frac{u \cdot x}{2}$$

$$p = \frac{12 \cdot 35}{2}$$

$$p = 210 \text{ dm}^2$$

$$\begin{aligned} c) \quad m &= 7,3 \text{ m} \\ n &= 5,5 \text{ m} \\ \hline x &= \end{aligned}$$

$$\begin{aligned} x^2 &= m^2 - n^2 \\ \hline x^2 &= 7,3^2 - 5,5^2 \\ x^2 &= 53,29 - 30,25 \\ x^2 &= 23,04 \\ x &= \sqrt{23,04} \\ x &= 4,8 \text{ m} \end{aligned}$$

$$\begin{aligned} \sigma &= m + n + x \\ \sigma &= 7,3 + 5,5 + 4,8 \\ \sigma &= 17,6 \text{ cm} \end{aligned}$$

$$\begin{aligned} p &= \frac{m \cdot x}{2} \\ \hline p &= \frac{5,5 \cdot 4,8}{2} \end{aligned}$$

$$p = 13,2 \text{ m}^2$$

$$\begin{aligned} d) \quad x &= \sqrt{13} \text{ cm} \\ y &= 2 \text{ cm} \\ \hline k &= \end{aligned}$$

$$p = \frac{y \cdot k}{2}$$

$$p = \frac{2 \cdot 3}{2}$$

$$p = 3 \text{ cm}^2$$

$$\begin{aligned} k^2 &= x^2 - y^2 \\ \hline k^2 &= (\sqrt{13})^2 - 2^2 \end{aligned}$$

$$k^2 = 13 - 4$$

$$k^2 = 9$$

$$k = \sqrt{9}$$

$$k = 3 \text{ cm}$$

$$\begin{aligned} \sigma &= x + y + k \\ \sigma &= \sqrt{13} + 2 + 3 \\ \sigma &= (5 + \sqrt{13}) \text{ cm} \\ \sigma &= 5 + 1,73 \\ \sigma &= 6,73 \text{ cm} \end{aligned}$$

$$e) \quad h = \sqrt{10} \text{ m}$$

$$k = 2\sqrt{2} \text{ m}$$

$$x =$$

$$x^2 = h^2 - k^2$$

$$x^2 = (\sqrt{10})^2 - (2\sqrt{2})^2$$

$$x^2 = 10 - 4 \cdot 2$$

$$x^2 = 10 - 8$$

$$x^2 = 2$$

$$x = \sqrt{2} \text{ m}$$

$$\sigma = h + k + x$$

$$\sigma = \sqrt{10} + 2\sqrt{2} + \sqrt{2}$$

$$\sigma = (\sqrt{10} + 3\sqrt{2}) \text{ m}$$

$$\sigma = 3,16 + 3 \cdot 1,41$$

$$\sigma = 7,39 \text{ m}$$

$$\mu = \frac{k \cdot x}{2}$$

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

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

$$\mu = 2 \text{ m}^2$$