

1. URA - PITAGOROV IZREK V PRAVOKOTNIKU - REŠITVE

U št. 186/1



a) $a = 12 \text{ cm}$
 $b = 9 \text{ cm}$

 $d =$

$$\underline{d^2 = a^2 + b^2}$$

$$d^2 = 12^2 + 9^2$$

$$d^2 = 144 + 81$$

$$d^2 = 225$$

$$d = \sqrt{225}$$

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

b) $a = 15 \text{ cm}$
 $b = 8 \text{ cm}$

 $d =$

$$\underline{d^2 = a^2 + b^2}$$

$$d^2 = 15^2 + 8^2$$

$$d^2 = 225 + 64$$

$$d^2 = 289$$

$$d = \sqrt{289}$$

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

c) $a = 1,1 \text{ dm}$
 $b = 6 \text{ dm}$

 $d =$

$$\underline{d^2 = a^2 + b^2}$$

$$d^2 = 1,1^2 + 6^2$$

$$d^2 = 1,21 + 36$$

$$d^2 = 37,21$$

$$d = \sqrt{37,21}$$

$$d = 6,1 \text{ dm}$$

$$\checkmark c) \quad a = 8 \text{ dm} = 80 \text{ cm}$$

$$\underline{b = 39 \text{ cm}}$$

$$d =$$

$$\underline{d^2 = a^2 + b^2}$$

$$d^2 = 80^2 + 39^2$$

$$d^2 = 6400 + 1521$$

$$d^2 = 7921$$

$$d = \sqrt{7921}$$

$$d = 89 \text{ cm} = 8,9 \text{ dm}$$

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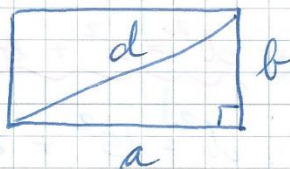
$$a) \quad b = 3 \text{ cm}$$

$$\underline{d = 5 \text{ cm}}$$

$$a =$$

$$\sigma =$$

$$p =$$



$$\underline{a^2 = d^2 - b^2}$$

$$a^2 = 5^2 - 3^2$$

$$a^2 = 25 - 9$$

$$a^2 = 16$$

$$a = \sqrt{16}$$

$$\underline{a = 4 \text{ cm}}$$

$$\underline{\sigma = 2 \cdot a + 2 \cdot b}$$

$$\sigma = 2 \cdot 4 + 2 \cdot 3$$

$$\sigma = 8 + 6$$

$$\underline{\sigma = 14 \text{ cm}}$$

$$\underline{p = a \cdot b}$$

$$p = 4 \cdot 3$$

$$\underline{p = 12 \text{ cm}^2}$$

$$b) \quad \begin{array}{l} a = 10 \text{ cm} \\ d = 26 \text{ cm} \\ \hline b = \\ \sigma = \\ \mu = \end{array}$$

$$\underline{b^2 = d^2 - a^2}$$

$$b^2 = 26^2 - 10^2$$

$$b^2 = 676 - 100$$

$$b^2 = 576$$

$$b = \sqrt{576}$$

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

$$\underline{\sigma = 2 \cdot a + 2 \cdot b}$$

$$\sigma = 2 \cdot 10 + 2 \cdot 24$$

$$\sigma = 20 + 48$$

$$\sigma = 68 \text{ cm}$$

$$\underline{\mu = a \cdot b}$$

$$\mu = 10 \cdot 24$$

$$\mu = 240 \text{ cm}^2$$

$$c) \quad \begin{array}{l} a = 30 \text{ cm} \\ d = 34 \text{ cm} \\ \hline b = \\ \sigma = \\ \mu = \end{array}$$

$$\underline{b^2 = d^2 - a^2}$$

$$b^2 = 34^2 - 30^2$$

$$b^2 = 1156 - 900$$

$$b^2 = 256$$

$$b = \sqrt{256}$$

$$b = 16 \text{ cm}$$

$$\underline{\sigma = 2 \cdot a + 2 \cdot b}$$

$$\sigma = 2 \cdot 30 + 2 \cdot 16$$

$$\sigma = 60 + 32$$

$$\sigma = 92 \text{ cm}$$

$$\underline{\mu = a \cdot b}$$

$$\mu = 30 \cdot 16$$

$$\mu = 480 \text{ cm}^2$$

c) $b = 12 \text{ cm}$
 $d = 3,7 \text{ dm} = 37 \text{ cm}$

$a =$

$\sigma =$

$\mu =$

$a^2 = d^2 - b^2$

$a^2 = 37^2 - 12^2$

$a^2 = 1369 - 144$

$a^2 = 1225$

$a = \sqrt{1225}$

$a = 35 \text{ cm}$

$\sigma = 2 \cdot a + 2 \cdot b$

$\sigma = 2 \cdot 35 + 2 \cdot 12$

$\sigma = 70 + 24$

$\sigma = 94 \text{ cm} = 9,4 \text{ dm}$

$\mu = a \cdot b$

$\mu = 35 \cdot 12$

$\mu = 420 \text{ cm}^2 = 4,2 \text{ dm}^2$

d) $d = \sqrt{74} \text{ cm}$

$a = 5 \text{ cm}$

$b =$

$\sigma =$

$\mu =$

$b^2 = d^2 - a^2$

$b^2 = \sqrt{74}^2 - 5^2$

$b^2 = 74 - 25$

$b^2 = 49$

$b = \sqrt{49}$

$b = 7 \text{ cm}$

$\sigma = 2 \cdot a + 2 \cdot b$

$\sigma = 2 \cdot 5 + 2 \cdot 7$

$\sigma = 10 + 14$

$\sigma = 24 \text{ cm}$

$\mu = a \cdot b$

$\mu = 5 \cdot 7$

$\mu = 35 \text{ cm}^2$