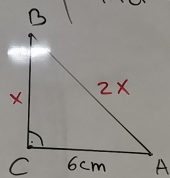


# Питагорина теорема - вежбање

235. i)  $AC = 6 \text{ cm}$   
 $AB = 2BC$   
 $\angle ACB = 90^\circ$



$h_c = ?$

$(2x)^2 = x^2 + 6^2$

$4x^2 = x^2 + 36$

$4x^2 - x^2 = 36$

$3x^2 = 36$

$x^2 = 36 : 3 = 12$

$x = \sqrt{12} = \sqrt{4 \cdot 3} = 2\sqrt{3}$

$BC = 2\sqrt{3} \text{ cm}$

$AB = 2BC = 2 \cdot 2\sqrt{3} \text{ cm} = 4\sqrt{3} \text{ cm}$

$P_{\Delta} = \frac{a \cdot b}{2} = \frac{c \cdot h_c}{2}$

$P_{\Delta} = \frac{a \cdot b}{2} = \frac{2\sqrt{3} \cdot 6}{2}$

$P_{\Delta} = 6\sqrt{3} \text{ cm}^2$

$P_{\Delta} = \frac{c \cdot h_c}{2}$

$6\sqrt{3} \text{ cm}^2 = \frac{4\sqrt{3} \text{ cm} \cdot h_c}{2}$

$2\sqrt{3} \text{ cm} \cdot h_c = 6\sqrt{3} \text{ cm}^2$

$h_c = \frac{6\sqrt{3} \text{ cm}^2}{2\sqrt{3} \text{ cm}} = \frac{6}{2}$

$h_c = 3 \text{ cm}$

241. b)  $P = 54 \text{ cm}^2$   
 $a = 12 \text{ cm}$

$O = ?$

$P = \frac{a \cdot b}{2}$

$\frac{12 \cdot b}{2} = 54$

$12 \cdot b = 2 \cdot 54$

$12 \cdot b = 108$

$b = 108 : 12$

$b = 9 \text{ cm}$

$c^2 = a^2 + b^2$

$c^2 = 12^2 + 9^2$

$c^2 = 144 + 81$

$c^2 = 225 \text{ cm}$

$c = \sqrt{225}$

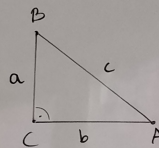
$c = 15$

$O = a + b + c$

$O = 12 + 9 + 15$

$O = 21 + 15$

$O = 36 \text{ cm}$



Замети:

235. a, b

238.

241. b