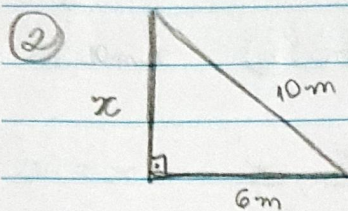


$$x^2 = \sqrt{3}^2 + 2^2$$

$$x^2 = 3 + 4$$

$$x = \sqrt{7}$$

Alternativa (B)

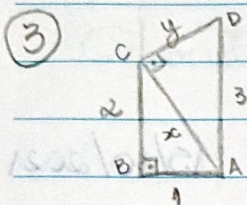


$$10^2 = 6^2 + x^2$$

$$100 = 36 + x^2$$

$$x^2 = 64$$

$$x = 8m$$



$$x^2 = 1^2 + 2^2$$

$$x^2 = 1 + 4$$

$$x = \sqrt{5}$$

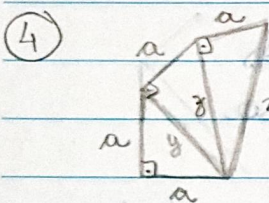
$$3^2 = \sqrt{5}^2 + y^2$$

$$9 = 5 + y^2$$

$$y^2 = 4$$

$$y = 2$$

Alternativa (B)



$$y^2 = 2a^2$$

$$y = a\sqrt{2}$$

$$z^2 = a^2 + (a\sqrt{2})^2$$

$$z^2 = a^2 + 2a^2$$

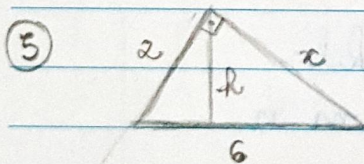
$$z = a\sqrt{3}$$

$$x^2 = a^2 + (a\sqrt{3})^2$$

$$x^2 = a^2 + 3a^2$$

$$x = 2a$$

Alternativa (B)



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

$$36 = 4 + x^2$$

$$x^2 = 32$$

$$x = 4\sqrt{2}$$

$$6h = 2 \cdot 4\sqrt{2}$$

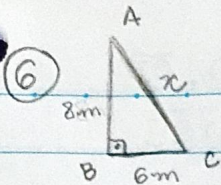
$$6h = 8\sqrt{2}$$

$$h = \frac{8\sqrt{2}}{6} = \frac{4\sqrt{2}}{3}$$

$$A = \frac{6 \cdot 4\sqrt{2}}{3}$$

$$A = \frac{8\sqrt{2}}{2} = 4\sqrt{2}$$

Alternativa (C)



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

$$x^2 = 36 + 64$$

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

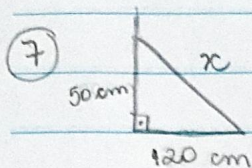
$$10^2 = y^2 + (2y)^2$$

$$100 = 5y^2$$

$$y^2 = 20$$

$$y = 2\sqrt{5} \text{ m}$$

Alternativa (A)



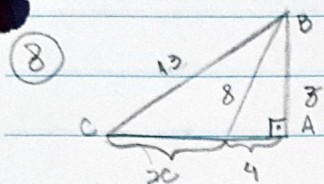
$$x^2 = 50^2 + 120^2$$

$$x^2 = 2500 + 14400$$

$$x^2 = 16900$$

Alternativa (B)

$$x = 130 \text{ cm} \Rightarrow 1,3 \text{ m}$$



$$8^2 = 4^2 + z^2$$

$$64 = 16 + z^2$$

$$z^2 = 48$$

$$z = 4\sqrt{3}$$

$$13^2 = (4\sqrt{3})^2 + (x+4)^2$$

$$169 = 48 + x^2 + 8x + 16$$

$$105 = x^2 + 8x$$

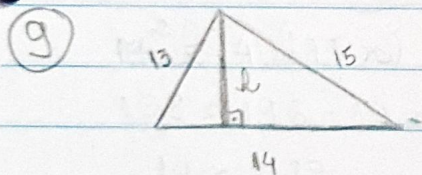
$$x^2 + 8x - 105 = 0$$

$$\Delta = 64 - 4 \cdot 1 \cdot (-105)$$

$$\Delta = 484$$

$$x = \frac{-8 \pm 22}{2} \rightarrow x = \frac{14}{2} = 7 \text{ m}$$

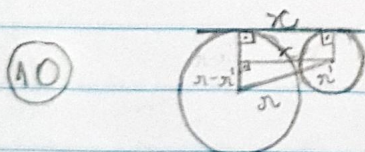
Alternativa (D)



$$15h = 13 \cdot 14$$

$$15h = 182$$

$$h = 12,13$$

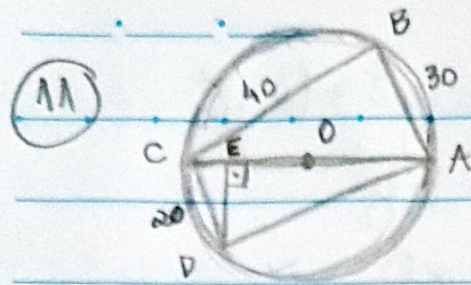


$$(r+r')^2 = x^2 + (r-r')^2$$

$$x^2 + 2rr' + (r')^2 = x^2 + x^2 - 2rr' + (r')^2$$

$$x^2 = 4rr'$$

$$x = 2\sqrt{rr'}$$



$$x^2 = 40^2 + 30^2$$

$$x^2 = 1600 + 900$$

$$x^2 = 2500$$

$$x = 50$$

$$20^2 = 50 \cdot \overline{CE}$$

$$400 = 50 \cdot \overline{CE}$$

$$\overline{CE} = 8$$

Alternativa C