

Tarefa básica

1.

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

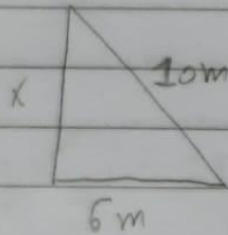
$$h^2 = 3 + 4$$

$$h^2 = 7$$

$$h = \sqrt{7} \quad (B)$$

$$(C) \quad \Delta V = \Delta$$

2.



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

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

$$100 = 36 + x^2$$

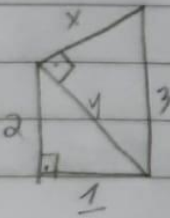
$$100 - 36 = x^2$$

$$64 = x^2$$

$$\sqrt{64} = x$$

$$x = 8m$$

3.



$$y^2 = 2^2 + 1^2 \quad x^2 = 3^2 - (\sqrt{5})^2$$

$$y^2 = 4 + 1 \quad x^2 = 9 - 5$$

$$y^2 = 5 \quad x^2 = 4$$

$$y = \sqrt{5} \quad x = \sqrt{4}$$

$$x = 2 \quad (B)$$

4.

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

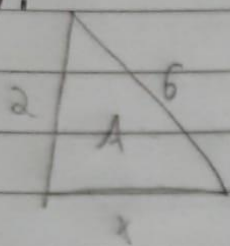
$$x^2 = 2a + 2a$$

$$x^2 = 4a$$

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

$$x = 2a \quad (B)$$

5.



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

$$36 - 4 = x^2$$

$$32 = x^2$$

$$\sqrt{32} = x$$

$$\sqrt{2^2 \cdot 2^2 \cdot 2} = x$$

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

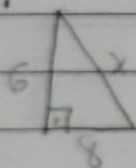
$$x = 4\sqrt{2}$$

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

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

$$A = 4\sqrt{2} \quad (C)$$

6.



7.

$$5.16 \text{ cm} = 80 = 0.80 \text{ m} \quad | \quad B = 5.12 = 50 \text{ cm} = 0.50 \text{ m}$$

$$A = 2.00 - 0.80 = 1.20 \text{ m}$$

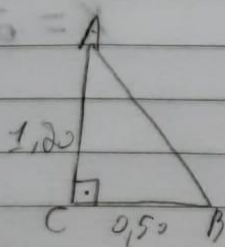
$$AB^2 = AC^2 + BC^2$$

$$AB^2 = 1.20^2 + 0.50^2$$

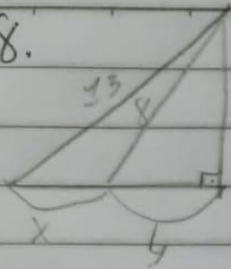
$$AB^2 = 1.44 + 0.25$$

$$AB = \sqrt{1.69}$$

$$AB = 1.30 \text{ m} \quad (B)$$



8.



$$8^2 = x^2 + 4^2$$

$$x^2 = 48$$

$$48 + (x+4)^2 = 13^2$$

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

$$\Delta = 64 + 420$$

$$\Delta = 484$$

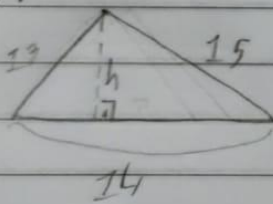
$$x = \frac{8 \pm 22}{2} \rightarrow x = 7$$

2

$$\rightarrow x = -15x$$

$$x = 7m \quad (D)$$

9.



$$13 \cdot 13 = 14 \cdot h$$

$$169 = 14h$$

$$h = \frac{169}{14}$$

$$h = 12$$

10.

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

$$x^2 = (n^2 + 2nn' + n'^2) - (n^2 - 2nn' + n'^2)$$

$$x^2 = 4nn' \rightarrow x = 2\sqrt{nn'}$$

11.

$$(AC)^2 = (40)^2 + (30)^2 \quad (20)^2 = (50)n$$

$$a = AC = ?$$

$$(AC)^2 = 1600 + 900$$

$$400 = 50n$$

$$b = BC = 40$$

$$(AC)^2 = 2500$$

$$50n = 400$$

$$c = AB = 30$$

$$(AC) = \sqrt{2500}$$

$$n = \frac{400}{50}$$

$$(AC) = 50$$

$$n = 8$$

$$n = 8 \quad (C)$$