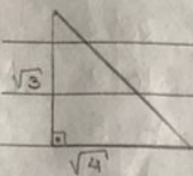


## Tarefa Básica

1-



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

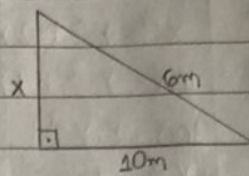
$$x^2 = 3 + 4$$

$$x^2 = 7$$

$$x = \sqrt{7}$$

B

2-



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

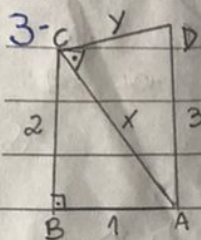
$$36 = x^2 + 100$$

$$x^2 = 100 - 36$$

$$x^2 = 64$$

$$x = \sqrt{64}$$

$$x = 8m$$



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

$$x^2 = 5$$

$$x = \sqrt{5}$$

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

$$9 = 5 + y^2$$

$$y^2 = 9 - 5$$

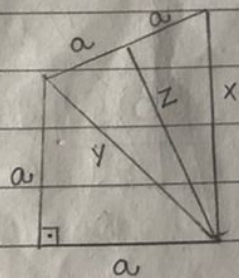
$$y^2 = 4$$

$$y = \sqrt{4}$$

$$y = 2$$

B

4-



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

$$y = 2a^2$$

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

$$y = 2a$$

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

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

$$z^2 = 3a^2$$

$$z = \sqrt{3a^2}$$

$$z = 3a$$

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

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

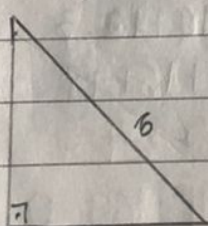
$$x^2 = 4a^2$$

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

$$x = 2a$$

B

5-



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

$$36 = x^2 + 4$$

$$x^2 = 36 - 4$$

$$x^2 = 32$$

$$x = \sqrt{32} \text{ ou } 4\sqrt{2}$$

$$\Delta = b \cdot h$$

$$2$$

$$\Delta = 4\sqrt{2} \cdot 2$$

$$2$$

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

$$2$$

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

$$32 \cdot 2$$

$$16 \cdot 2$$

$$8 \cdot 2$$

$$4 \cdot 2$$

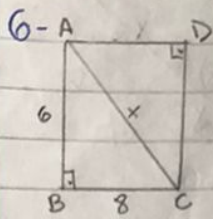
$$2 \cdot 2$$

$$1 \cdot 1$$

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

C





$$\begin{aligned}x^2 &= 6^2 + 8^2 \\x^2 &= 36 + 64 \\x^2 &= 100 \\x &= \sqrt{100} \\x &= 10\end{aligned}$$

$$\begin{aligned}x^2 &= y^2 + 2y^2 \\100 &= y^2 + 4y^2 \\100 &= 5y^2 \\y^2 &= \frac{100}{5}\end{aligned}$$

$$\begin{aligned}y^2 &= 20 \\y &= \sqrt{20} \approx 2\sqrt{5}\end{aligned}$$

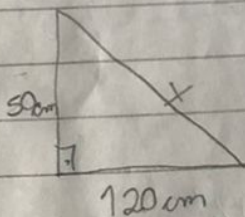
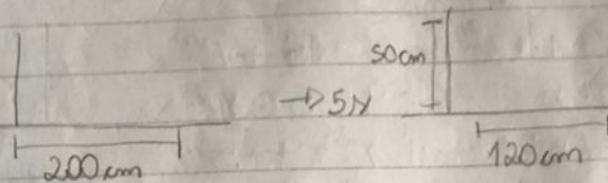
[A]

5 5

7-

$$A = 16 \text{ cm/N}$$

$$F = 10 \text{ cm/N}$$



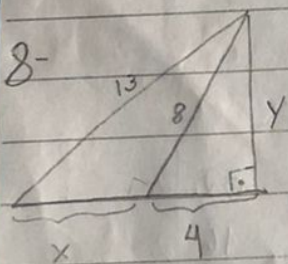
$$\begin{aligned}x^2 &= 120^2 + 50^2 \\x^2 &= 14400 + 2500 \\x &= \sqrt{16900}\end{aligned}$$

$$x = 130 \text{ cm } (\div 100)$$

$$x = 1.3 \text{ m}$$

[B]

8-



$$8^2 = y^2 + 4^2$$

$$64 = y^2 + 16$$

$$64 - 16 = y^2$$

$$y^2 = 48$$

$$y^2 = \sqrt{48} \approx 4\sqrt{3}$$

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

$$169 = x^2 + 8x + 16 + 16 \cdot 3$$

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

$$169 = x^2 + 8x + 64$$

$$x^2 + 8x + 64 - 169 = 0$$

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

$$48 \mid 2$$

$$24 \mid 2$$

$$12 \mid 2$$

$$6 \mid 2$$

$$3 \mid 3$$

$$1$$

$$4\sqrt{3}$$



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

$$x = \frac{-8 \pm \sqrt{484}}{2 \cdot 1}$$

$$\Delta = 64 + 420$$

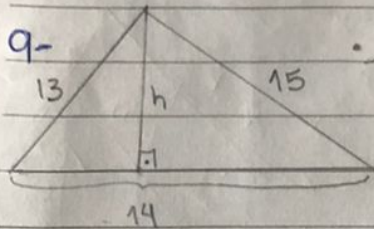
$$\Delta = 484$$

$$x = \frac{-8 \pm 22}{2}$$

$$\Delta x = \frac{-8 - 22}{2} = -15$$

1

$$x' = \frac{-8 + 22}{2} = \frac{14}{2} = 7 \text{ m}$$



• formula de heron

$$p = \frac{(13+14+15)}{2} = \frac{42}{2} = 21$$

$$A = \sqrt{21(21-13)(21-14)(21-15)}$$

$$A = \sqrt{21 \cdot 8 \cdot 7 \cdot 6}$$

$$A = \sqrt{7056}$$

$$A = 84$$

$$A = b \cdot h$$

$$2$$

$$84 = 7h$$

$$h = \frac{84}{7}$$

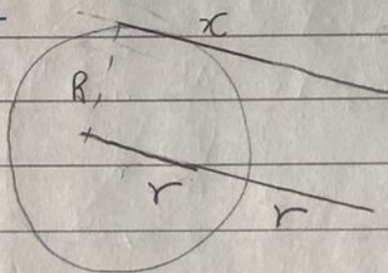
$$7$$

$$84 = \frac{14 \cdot h}{2}$$

$$2$$

$$h = 12$$

10-



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

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

$$x^2 = 2rr' - 2rr'$$

$$x^2 = 2rr' + 2rr'$$

$$x^2 = 4rr'$$

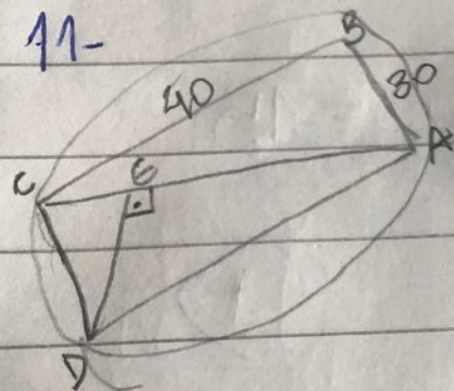
$$x = \sqrt{4rr'}$$

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

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S T Q Q S S D

11-



$$Ca^2 = 30^2 + 40^2$$

$$Ca^2 = 900 + 1600$$

$$Ca^2 = 2500$$

$$Ca = \sqrt{2500}$$

$$Ca = 50$$

$$C1) = AC \cdot CE$$

$$20^2 = 50 \cdot CE$$

$$400 = 50CE$$

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

$$8$$

$$\boxed{CE = 8}$$