

CREATE IT.

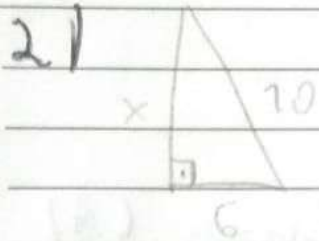
Tarefa Básica

1) $x^2 = (\sqrt{5})^2 + (\sqrt{4})^2$

$x^2 = 5 + 4$

$x^2 = \sqrt{9}$

alternativa (B)

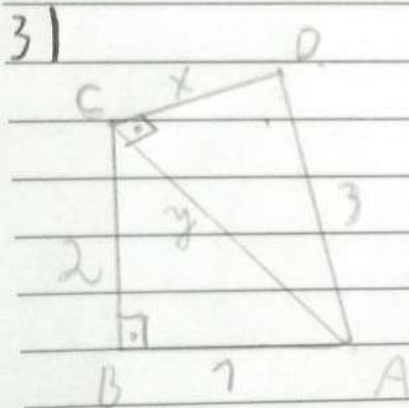


$10^2 = x^2 + 6^2$

$100 = x^2 + 36$

$x^2 = 64$

$x = \sqrt{64} \Rightarrow x = 8m$



$y^2 = 2^2 + 7^2$

$y = \sqrt{53}$

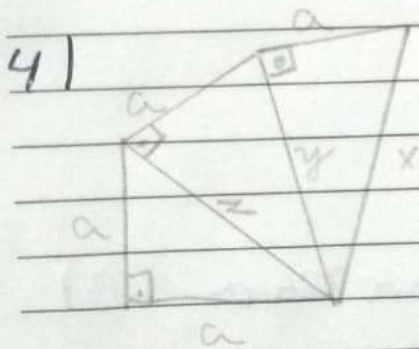
$3^2 = (\sqrt{5})^2 + x^2$

$9 = 5 + x^2$

$x = \sqrt{4} =$

$x = 2$

alternativa (B)



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

$z^2 = 2a^2$

$z =$

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

$x^2 = 4a^2$

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

$x = 2a$

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

$y^2 = 3a^2$

$y =$

$y =$

alternativa (B)

5) $6^2 = 2^2 + x^2$

$36 = 4 + x^2$

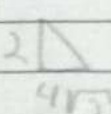
$x = \sqrt{32}$

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

$x = 4\sqrt{2}$

32	27
16	2
8	27
4	2
2	2
1	

Área:



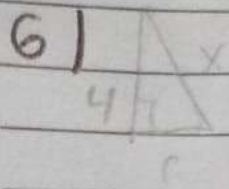
$(4\sqrt{2}) \cdot 2$

$x = x$

$x = x$

$4\sqrt{2}$

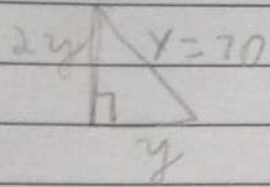
alternativa (C)



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

$$x^2 = 100$$

$$x = \sqrt{100} \Rightarrow x = 10 \text{ m}$$



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

$$100 = 4y^2 + y^2$$

$$5y^2 = 100$$

$$y = \sqrt{20}$$

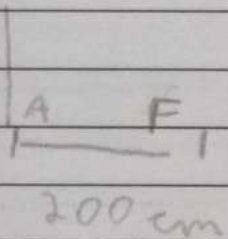
$$y = \sqrt{2 \cdot 5}$$

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

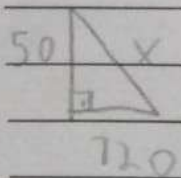
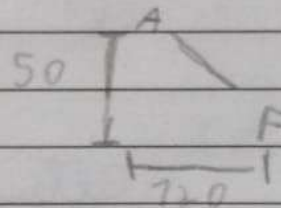
$$\begin{array}{r|l} 20 & 2 \\ \hline 10 & 2 \\ 5 & 5 \\ \hline 1 & \end{array}$$

Alternativa (A)

7) $\text{carro} = 26 \text{ cm/s}$
 $\text{foguete} = 70 \text{ cm/s}$



$\rightarrow 5 \text{ s}$



$$x^2 = 50^2 + 720^2$$

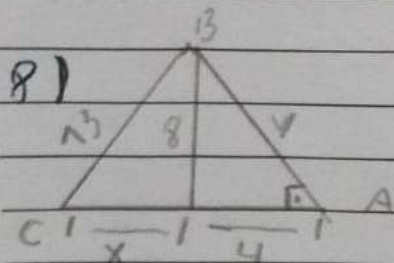
$$x^2 = 2500 + 14400$$

$$x = \sqrt{16900}$$

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

$$x = 1,3 \text{ m}$$

Alternativa (B)



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

$$64 = 16 + y^2$$

$$y^2 = 48$$

$$73^2 = y^2 + (x+4)^2$$

$$769 = 48 + x^2 + 16 + 8x$$

$$x^2 - 8x - 705 = 0$$

$$x = 7 \text{ m}$$

$$x' = 7$$

$$x'' = -75$$

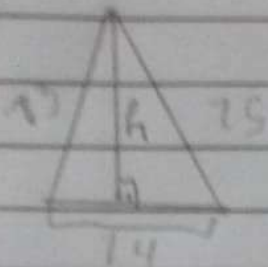
$$7 + (-75) = -68$$

$$7 - (-75) = -705$$

Alternativa (D)

CREATE IT.

9)



Formula de Heron

$$A = \sqrt{27(27-13)(27-14)(27-15)}$$

$$p = (17 + 14 + 15) = \frac{46}{2} = 23$$

$$A = \sqrt{23 \cdot 8 \cdot 7 \cdot 6}$$

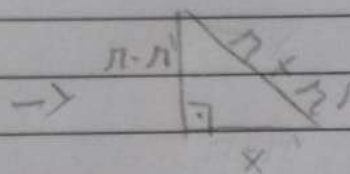
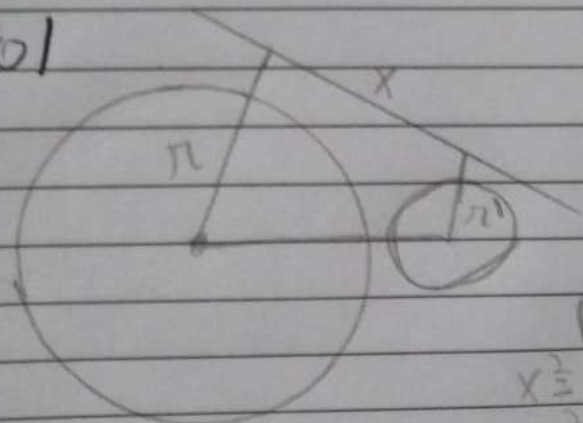
$$A = \sqrt{7056}$$

$$A = 84$$

$$84 = 7h$$

$$h = \frac{84}{7} \Rightarrow h = 12$$

10)



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

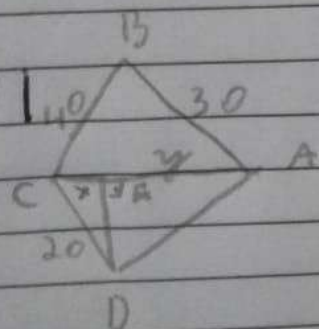
$$x^2 = (r^2 + 2rr' + r'^2) - (r^2 - 2rr' + r'^2)$$

$$x^2 = 4rr'$$

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

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

17)

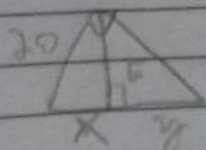


$$y^2 = 30^2 + 40^2$$

$$y^2 = 900 + 1600$$

$$y = \sqrt{2500}$$

$$y = 50$$



$$C^2 = a \cdot m$$

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

$$50x = 400$$

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

$$x = 8$$

alternativa (C)