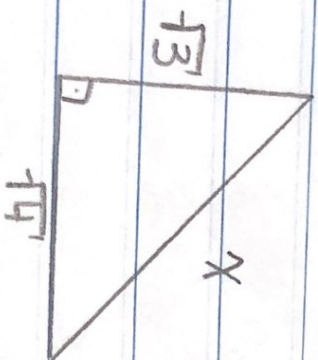


# Triângulos retângulos

Tarefa básica!

01.

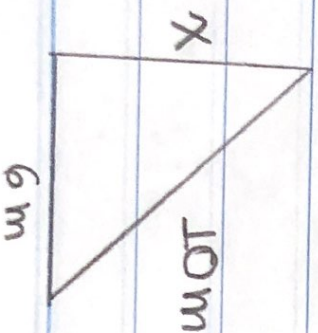


$$x^2 = (\sqrt{3})^2 + (\sqrt{4})^2$$

$$x^2 = 3 + 4$$

$$x = \sqrt{7}$$

02.



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

$$x^2 = 100 - 36$$

$$x^2 = 64$$

$$x = 8m$$

03. trâm. 1  $\rightarrow y^2 = 1 + 2^2$

$$y^2 = 5$$

trâm. 2  $\rightarrow 3^2 = x^2 + y^2$

$$9 = x^2 + 5$$

$$9 - 5 = x^2$$

$$x^2 = 4$$

$$x = 2 //$$

04.  $\Delta 1 \rightarrow y^2 = a^2 + a^2$

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

$\Delta 2 \rightarrow z^2 = a^2 + y^2$

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

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

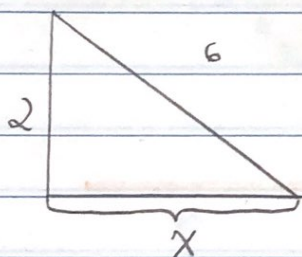
$\Delta 3 \rightarrow x^2 = a^2 + z^2$

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

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

$$x = 2a //$$

05.



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

$$36 = 4 + x^2$$

$$x^2 = 32$$

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

$$\text{Area} = \frac{b \cdot h}{2} \rightarrow \frac{4 \cdot \sqrt{2}}{2}$$

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

06.  $a^2 + (2a)^2 = 10^2$

$$5a^2 = 100$$

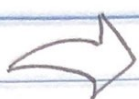
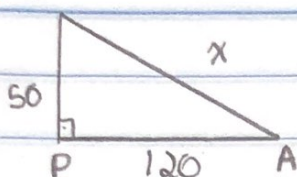
$$a^2 = 20$$

$$5$$

$$a = 2\sqrt{5} //$$



07. F



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

$$x^2 = 16.900$$

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

08.  $\Delta 1 \rightarrow 8^2 = y^2 + 4^2$

$$y^2 = 64 - 16$$

$$y^2 = 48$$

$$\Delta 2 \rightarrow x^2 + 8x + 16 + 48 = 169$$

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

$\Delta$

$$x_1 = 7 \quad \text{e} \quad x_2 = -15$$

09. trục 1  $\rightarrow x^2 + R_{\Delta 1}^2 = 13^2$

?

$$R_{\Delta 1}^2 = 169 - x^2$$

$$R_{\Delta 1}^2 = R_{\Delta 2}^2$$

$$x = 5$$

trục 2  $\rightarrow R_{\Delta 2}^2 = -x^2 + 28x + 29$

$$y^2 = 169 - x^2$$

$$y^2 = 169 - 25$$

$$y^2 = 144$$

$$\rightarrow R = 12$$

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

?

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

$$x^2 = 4 \cdot r \cdot r'$$

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

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

$$y = 50$$

$$z^2 = 20^2 - 50^2$$

$$z = 10\sqrt{21}$$

$$r = 11 \sqrt{21}$$

$$r = 2 - 11m - 22r$$