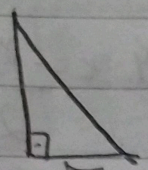
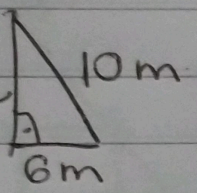
Danielle Medeiros Amaral - CT113217

Triângulo Retângulo - Relações Métricas

1. 

$x^2 = (\sqrt{3})^2 + (\sqrt{4})^2 \quad x^2 = 3 + 4 \quad x = \sqrt{7}$

resposta letra B

2. 

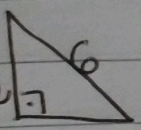
$10^2 = 6^2 + x^2 \quad 100 = 36 + x^2 \quad \sqrt{64} = x$

$x = 8m$

3. $x^2 = 1 + 4 \quad x = \sqrt{5}$

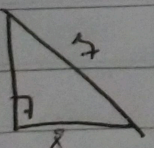
$9 = x^2 + (\sqrt{5})^2$

$\sqrt{4} = x \quad x = 2$ resposta letra B

5. 

$36 = x^2 + 4 \quad A = \frac{6 \cdot h}{2} \quad \frac{\sqrt{32} \cdot 2}{2} \quad 4\sqrt{2}$

$\sqrt{32} = x$ resposta letra C

6. 

$x^2 = 36 + 8^2 \quad x^2 = 36 + 64 \quad x = \sqrt{100} \quad x = 10$

$10 \cdot 2 = 20 \quad 10 \mid 2 \quad 2\sqrt{5}$

$x = 10 \quad 5 \mid 5$ resposta letra A

7. $16 = 80\,cm \quad 0,8^{\circ}m \quad 2,00 - 0,80 = 1,20$

$x5$

$10 \quad 0,50\,m$

$\frac{x5}{50} \quad x^2 = 1,20^2 + 0,50^2 \quad x^2 = 1,44 + 0,25$

$x = \sqrt{1,69}$

$1,30\,m$ resposta letra B

8. $8^2 = 4^2 + x^2$ $64 = 16 + x^2$ $x = \sqrt{48}$

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

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

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

$x^2 + 8x - 105 = 0$ $\Delta = 64 - 4 \cdot 1 \cdot (-105)$ $\Delta = 484$ $x = \frac{-8 \pm \sqrt{484}}{2 \cdot 1}$

$x^1 = -15$

$x^2 = \frac{14}{2} = 7m$ resposta letra D

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

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

$x^2 = 4rr'$ $x = 2\sqrt{rr'}$

11. $AC^2 = 40^2 + 30^2$ $AC^2 = \sqrt{2500}$ $AC = 50$

$c^2 = a \cdot n$ $50n = 400$ $n = 8$ resposta letra C

$20^2 = 50 \cdot n$