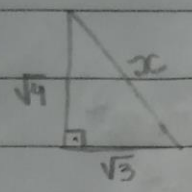
Nome: Kemilly Teixeira Cruz CTII-317

# Tarefa Básica - Triângulo Retângulo

**01.**

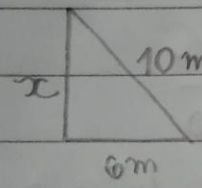



$x^2 = (\sqrt{3})^2 + (\sqrt{4})^2$

$x^2 = 3+4$

$x = \sqrt{7}$ Letra B

**02.**



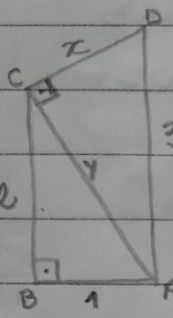

$10^2 = 6^2 + x^2$

$100 - 36 = x^2$

$x = \sqrt{64}$

$x = 8\,m$

**03.**




$y^2 = 2^2 + 1^2$

$y^2 = 4+1$

$y^2 = 5$

$3^2 = y^2 + x^2$

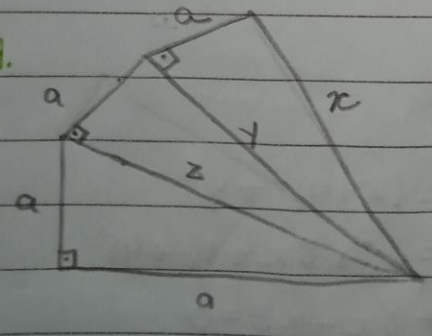
$9 = 5 + x^2$

$x^2 = 9-5$

$x = \sqrt{4}$

$x = 2$ Letra B

**04.**




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

$z^2 = 2a^2$

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

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

$y^2 = 3a^2$

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

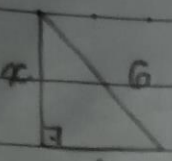
$x^2 = 3a^2 + a^2$

$x^2 = 4a^2$

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

$x = 2a$ Letra B

**05.**




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

$36 - 4 = x^2$

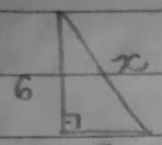
$x = \sqrt{32}$

$x = 4\sqrt{2}$

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

$A = 4\sqrt{2}$. Letra C

**06.**

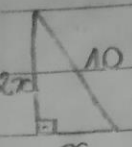



$x^2 = 6^2 + 8^2$

$x^2 = 36 + 64$

$x = \sqrt{100}$

$x = 10$




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

$100 = 4x^2 + x^2$

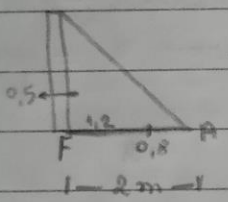
$100 = 5x^2$

$x^2 = 100/5$

$x = \sqrt{20}$

$x = 2\sqrt{5}$ Letra A

**07.**




16 cm = 0,16 m

10 cm = 0,1 m

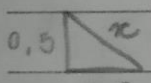
$D = v \cdot t$

$D = 0,10 \cdot 5$

$D = 0,8$ m

$D = 0,1 \cdot 5$

$D = 0,5$ m



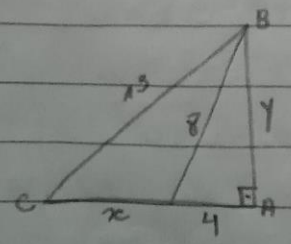

$x^2 = 0,5^2 + 1,2^2$

$x^2 = 0,25 + 1,44$

$x = \sqrt{1,69}$

$x = 1,3$ m

**08.**




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

$64 - 16 = y^2$

$y^2 = 48$

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

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

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

| | |
|---|---|
| 105 | 3 |
| 35 | 5 |
| 7 | |

$> 15$

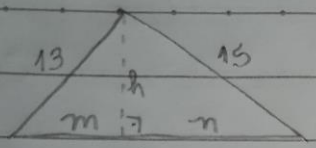
não convém

$-15 + 7 = -8$

$-15 \cdot 7 = -105$

$x = 7 \rightsquigarrow$ Letra D

**09.**




$15^2 = h^2 + n^2$

$13^2 = h^2 + m^2$

$225 - 169 = n^2 - m^2$

$n + m = 14$

$225 - 169 = n^2 - m^2$

$56 = (n+m)\cdot(n-m)$

$56 = 14 \cdot (n-m)$

$n - m = \frac{56}{14} = 4$

$+ \quad n + m = 14$

$n - m = 4$

$2n = 18$

$n = 18/2 = 9$

$15^2 = h^2 + n^2$

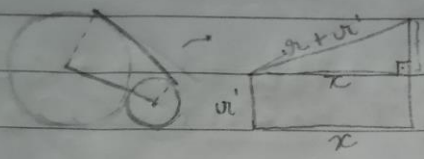
$15^2 = h^2 + 9^2$

$h^2 = 225 - 81$

$h = \sqrt{144}$

$h = 12$

**10.**




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

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

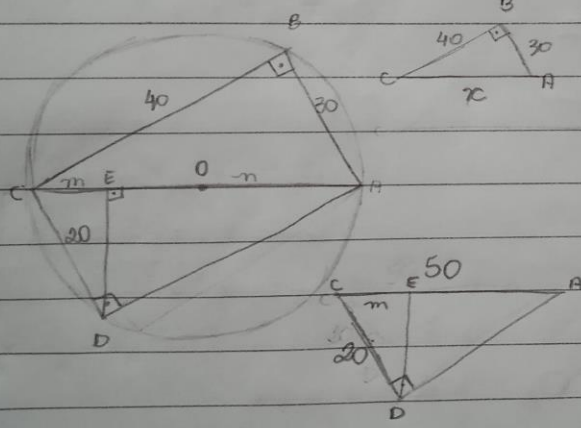
$x^2 = r^2 + 2rr' + r'^2 - r^2 + 2rr' - r'^2$

$x^2 = 4rr'$

$x = \sqrt{4rr'}$

$x = 2\sqrt{rr'}$

**11.**




$x^2 = 40^2 + 30^2$

$x^2 = 1600 + 900$

$x = \sqrt{2500}$

$x = 50$

$c^2 = a \cdot m$

$20^2 = 50m$

$400 = 50m$

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

$m = 8$ Letra c