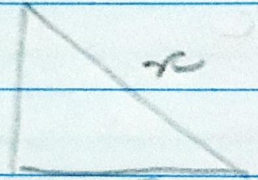
Tarefa Básica

1.)



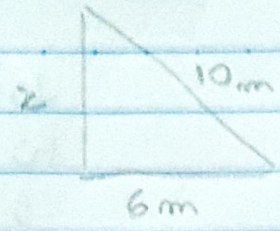
$$x^2 = (\sqrt{3})^2 + (\sqrt{4})^2$$

$$x^2 = 3 + 4$$

$$x = \sqrt{7}$$

(B)

2-)



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

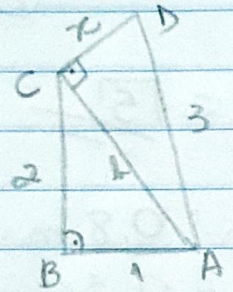
$100 = 36 + x^2$

$x^2 = 64$

$x = 8$

8m

3-)



$b^2 = 2^2 + 1^2$

$b^2 = 4 + 1$

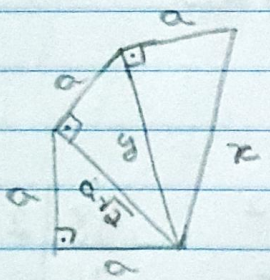
$b = \sqrt{5}$ (B)

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

$5 = 9 + x^2$ $\quad x = 2$

$x = \sqrt{4}$

4-)



$y^2 = a^2 + (a\sqrt{2})^2$

$y^2 = a^2 + a^2 \cdot 2$

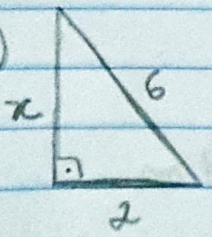
$y = \sqrt{3a^2} = a\sqrt{3}$

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

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

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

5-)



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

$36 = x^2 + 4$

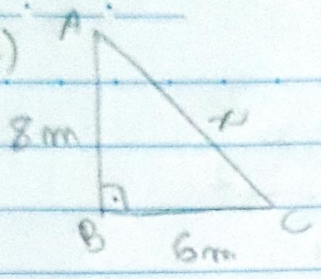
$x^2 = 32$

$x = 4\sqrt{2}$

32	2
16	2
8	2
4	2
2	2
1	

$A = \frac{4\sqrt{2} \cdot \cancel{2}}{\cancel{2}} = 4\sqrt{2}$ (C)

6-)

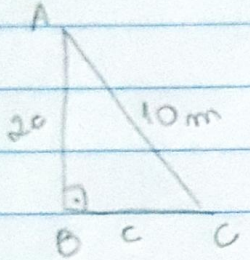


$x^2 = 8^2 + 6^2$

$x^2 = 64 + 36$

$x = 10\ m$

20	2
10	2
5	5
1	



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

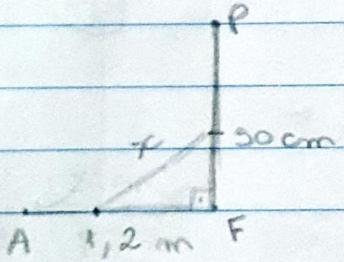
$100 = 4c^2 + c^2$

$100 = 5c^2$

$c^2 = 20 \Rightarrow c = 2\sqrt{5}$

(A)

7-)



$16 \cdot 5 = 80\ cm = 0,8\ m$

$10 \cdot 5 = 50\ cm = 0,5\ m$

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

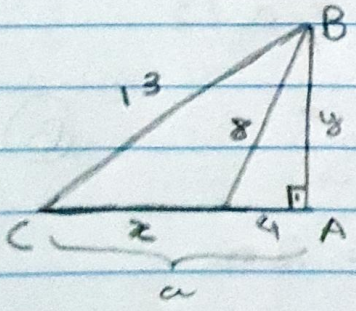
$x^2 = 1,44 + 0,25$

$x^2 = 1,69$

$x = 1,3\ m$

(B)

8-)



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

$64 = 16 + y^2$

$y^2 = 48$

$y = 4\sqrt{3}$

48	2
24	2
12	2
6	2
3	3
1	

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

$169 = 16 \cdot 3 + a^2$

$169 = 48 + a^2$

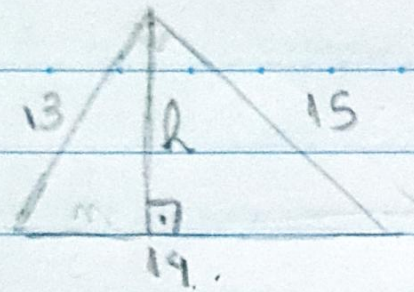
$a^2 = 121$

$a = 11$

$11\ m - 4\ m = 7\ m$

(D)

9-)

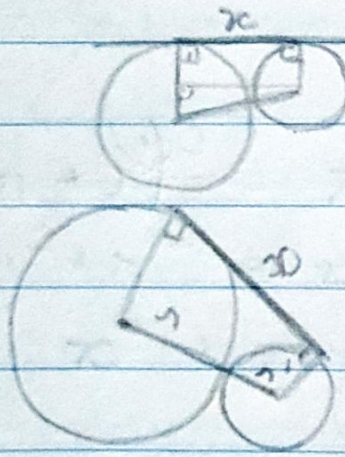


$13 \cdot 14 = 15h$

$182 = 15h$

$h \cong 12,13$

10-)



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

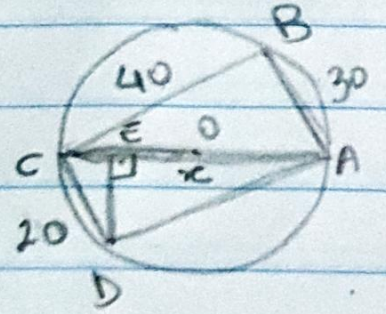
$r^2 + 2rr' + r'^2 = x^2 + r^2 - 2rr' + r'^2$

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

$x^2 = 4rr'$

$x = 2\sqrt{rr'}$

11-)



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

$x^2 = 1600 + 900$

$x^2 = 2500$

$x = 50$

$h^2 = am$

$20^2 = 50m$

$400 = 50m$

$m = 8$

(C)