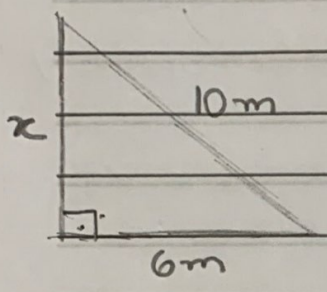
TAREFA: TRIANGULO RETANGULO.

01.

$x^2 = (\sqrt{3})^2 + (\sqrt{4})^2 \rightarrow x^2 = 3 + 4 \rightarrow x = \sqrt{7}$ R: B

02.



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

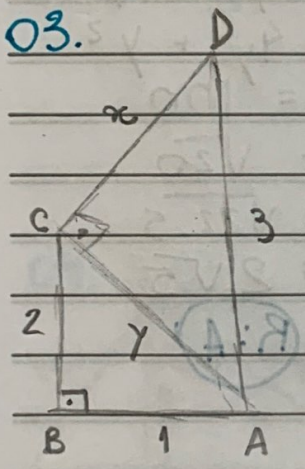
$100 = x^2 + 36$

$x^2 = 64$

$x = \sqrt{64}$

$x = 8m$

03.



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

$y^2 = 5$

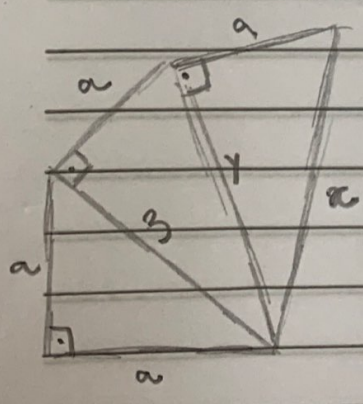
$3^2 = y^2 + x^2$

$9 = 5 + x^2$

$x^2 = 4$

$x = \sqrt{4} \rightarrow 2$ R: B

04.



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

$z^2 = 2a^2$

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

$y = 3a^2$

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

$x^2 = 4a^2$

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

$x = 2a$ R: B

05. $6^2 = 2^2 + x^2$

$x^2 = 32$

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

$x = 4\sqrt{2}$

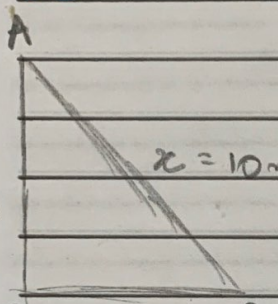
32	4
8	4
2	2
1	

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

2

$4\sqrt{2} \rightarrow$ R: C

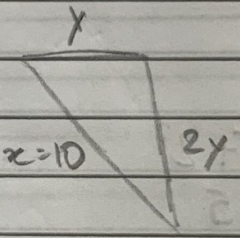
06.



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

$x^2 = 100$

$x = 10$



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

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

$5y^2 = 100$

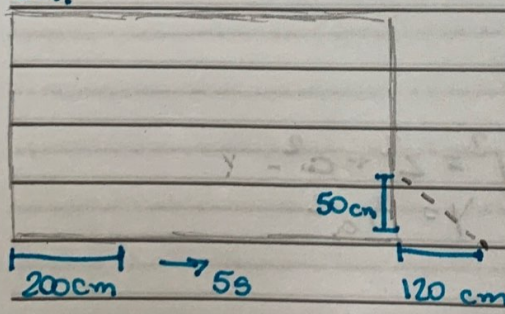
$y = \sqrt{20}$

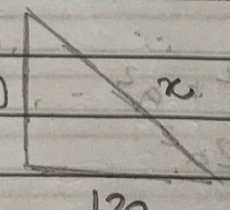
$y = \sqrt{22.5}$

$y = 2\sqrt{5}$

R: A

07.





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

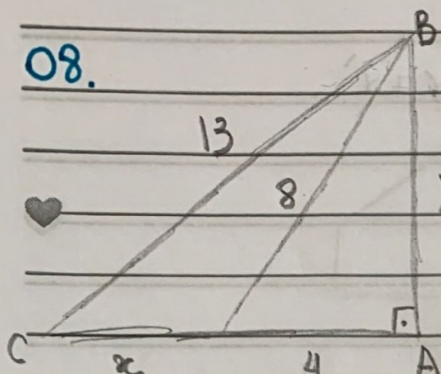
$x^2 = 14400 + 2500$

$x = \sqrt{16.900}$

$x = 130\,cm \;/100$

$x = 1,3\,m$

08.



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

$64 = y^2 + 16$

$y^2 = 48$

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

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

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

$\Delta = 8^2 - 4.1.-105$

$\Delta = 64 - 4.-105$

$\Delta = 64 - (-420)$

$\Delta = 484$

$x = \frac{(-8 \pm \sqrt{484})}{2.1}$

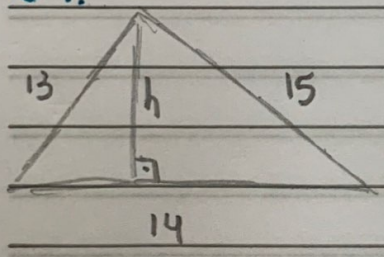
$x = \frac{-8 \pm 22}{2}$

$x' = \frac{-8+22}{2} = \boxed{7}$

$x'' = \frac{-8-22}{2} = -15$

R: D

09.



$P = (13+14+15)$

$P = 42/2$

$P = 21$

$A = \sqrt{21(21-13)(21-14)(21-15}$

$A = \sqrt{21.8.7.6}$

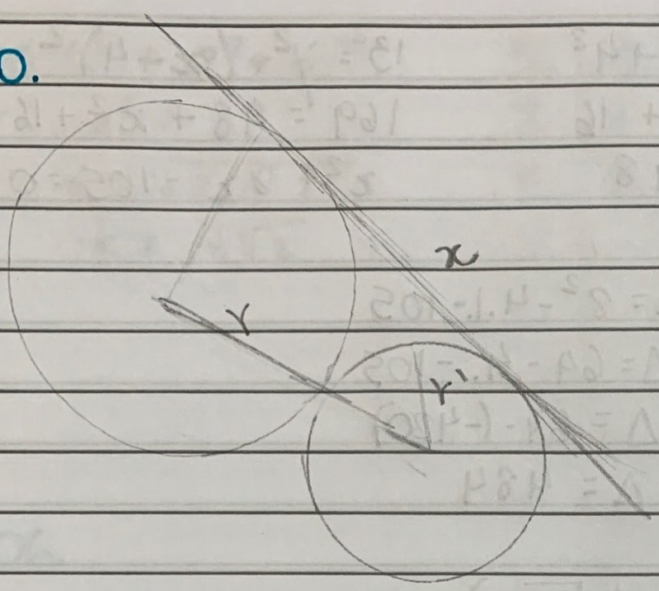
$A = \sqrt{7056}$

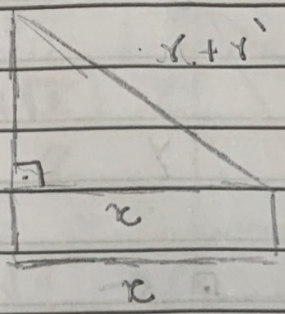
$A = 84 \rightarrow 7h$

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

$\boxed{h = 12}$

10.





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

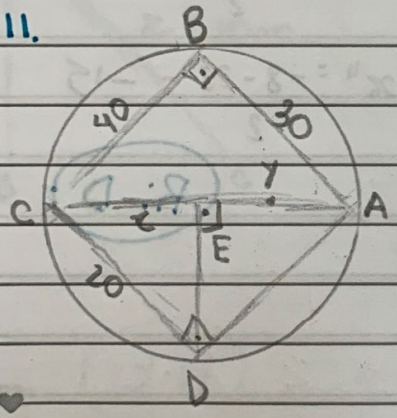
$x^2 = (r^2 + 2rr' + r'^2) - (r^2 - 2rr^2 + r'^2)$

$x = 4rr'$

$x = \sqrt{4rr'}$

$2\sqrt{rr'}$

11.

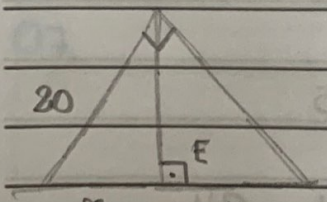


$y^2 = 30^2 + 40^2$

$y^2 = 900 + 1600$

$y = \sqrt{2500}$

$y = 50$



$c^2 = a.m$

$20^2 = 50.x$

$50x = 400$

$x = 400 / 50$

$x = 8$

R: C