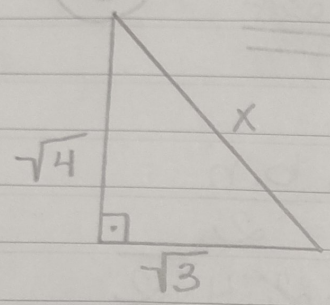
NOME: João Victor
TURMA: CTII348
Prontuario: 1990527

Tarefa Basica.

1-



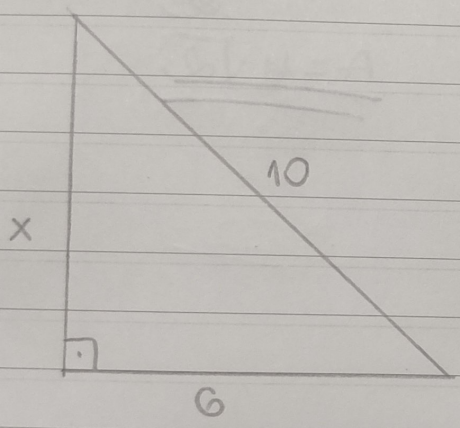
$x^2 = (\sqrt{4})^2 + (\sqrt{3})^2$

$x^2 = 4 + 3$

$x = \sqrt{7}$

B

2-



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

$100 = x^2 + 36$

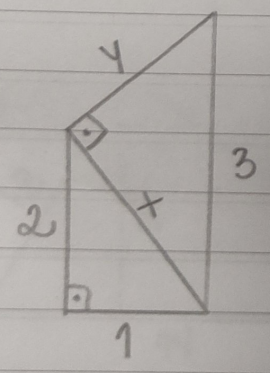
$64 = x^2$

$\sqrt{64} = x$

$x = 8$

8m

3-



$x^2 = 2^2 + 1^2$

$x^2 = 4 + 1$

$x^2 = 5$

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

$9 = 5 + y^2$

$4 = y^2$

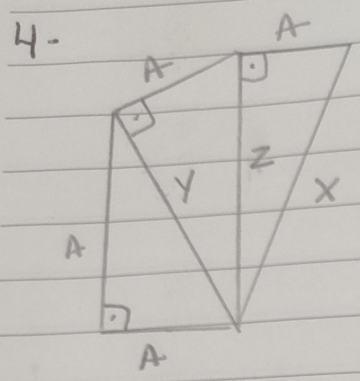
$\sqrt{4} = y$

$2 = y$

A

B

4-



$Y^2 = A^2 + A^2$

$Y^2 = 2A^2$

$Z^2 = A^2 + Y^2$

$Z^2 = A^2 + 2A^2$

$Z^2 = 3A^2$

$X^2 = A^2 + Z^2$

$X^2 = A^2 + 3A^2$

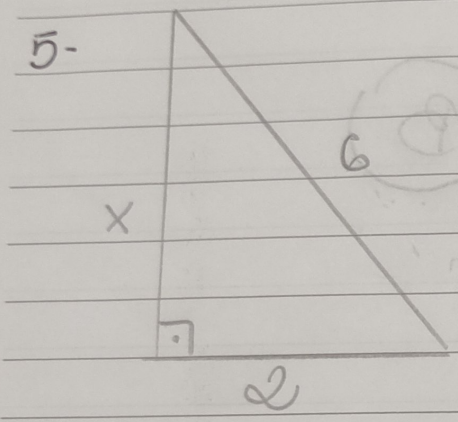
$X^2 = 4A^2$

$X = \sqrt{4A^2}$

$X = 2A$

(B)

5-



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

$36 = x^2 + 4$

$32 = x^2$

$4\sqrt{2} = x$

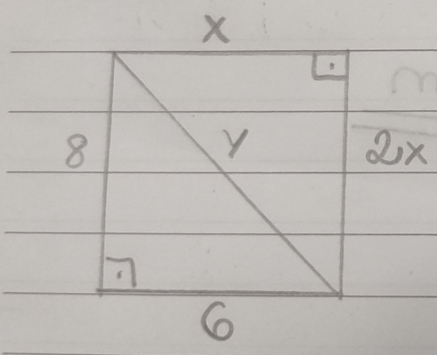
$A = \frac{b \cdot h}{2}$

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

$A = 4\sqrt{2}$

(C)

6-



$Y^2 = 8^2 + 6^2$

$Y^2 = 64 + 36$

$Y = \sqrt{100}$

$Y = 10$

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

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

$100 = 5x^2$

$20 = x^2$

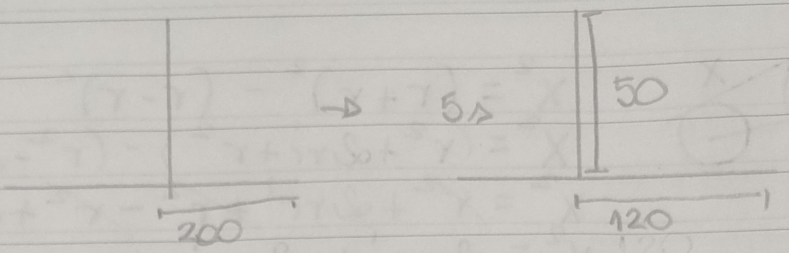
$2\sqrt{5} = x$

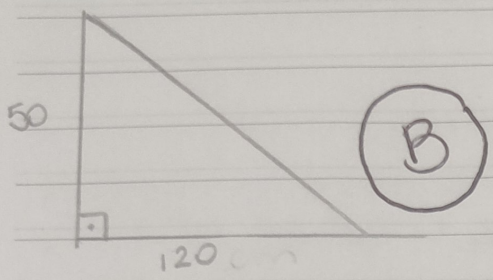
(A)

7.

A = 16 cm/s

A = 10 cm/s





(B)

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

$x^2 = 14400 + 2500$

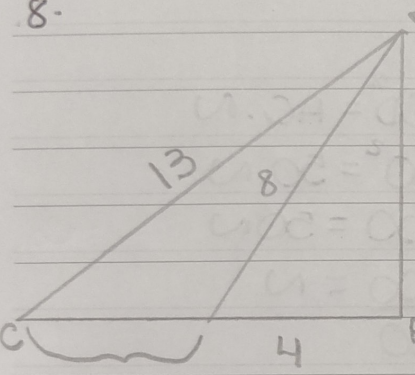
$x^2 = 16900$

$x = \sqrt{16900}$

$x = 130$ cm

$x = 1{,}3$ m

8.



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

$64 = 16 + y^2$

$48 = y^2$

$\sqrt{48} = y$

$y = 4\sqrt{3}$

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

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

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

$\Delta = b^2 - 4ac$

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

$\Delta = 64 + 420$

$\Delta = 484$

$x = \frac{-b \pm \sqrt{\Delta}}{2a}$

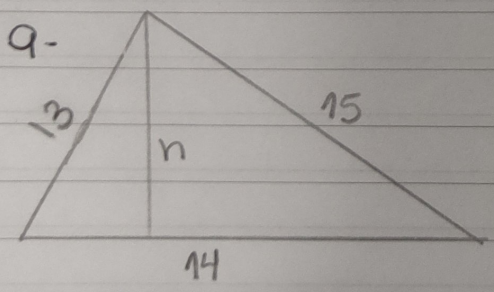
(D)

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

$x = \frac{14}{2}$

$x = 7$m

9.



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

$A = \sqrt{21.8.7.6}$

$A = \sqrt{7056}$ $A = 84$

$P = \frac{(13+14+15)}{2} = \frac{42}{2} = 21$

$A = \frac{b.n}{2}$ $84 = \frac{14.n}{2}$

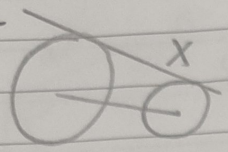
$84 = 7n$ $n = \frac{84}{7}$ $n = 12$

12

__/__/__

S T Q Q S S D

10-



$X^2 = (r+r)^2 - (r-r)^2$

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

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

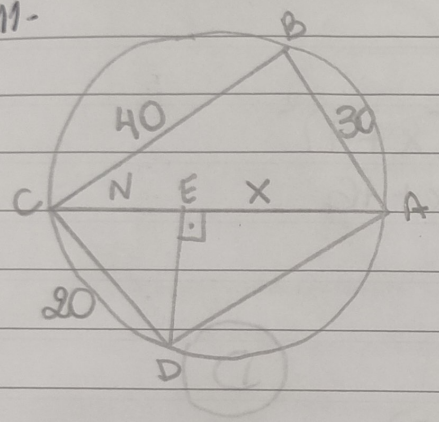
$X^2 = 2rr' + 2rr'$

$X^2 = 4rr'$

$X = \sqrt{4rr'}$

$X = 2\sqrt{rr'}$

11-



$X^2 = 30^2 + 40^2$

$X^2 = 900 + 1600$

$X^2 = 2500$

$X = \sqrt{2500}$

$X = 50$

$CD^2 = AC \cdot N$

$20^2 = 50 \cdot N$

$400 = 50N$

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

$N = 8$

(C)

CE=N