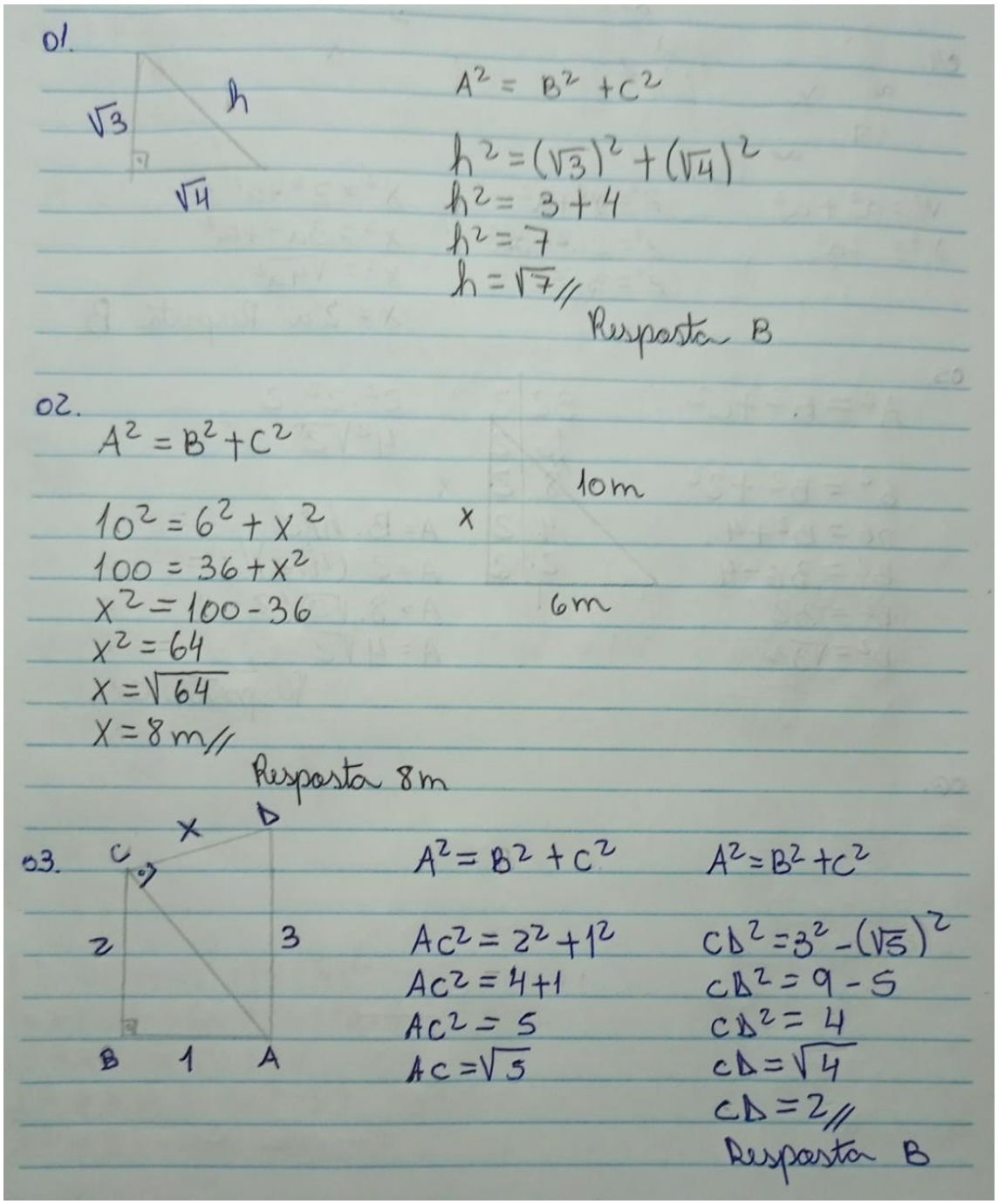
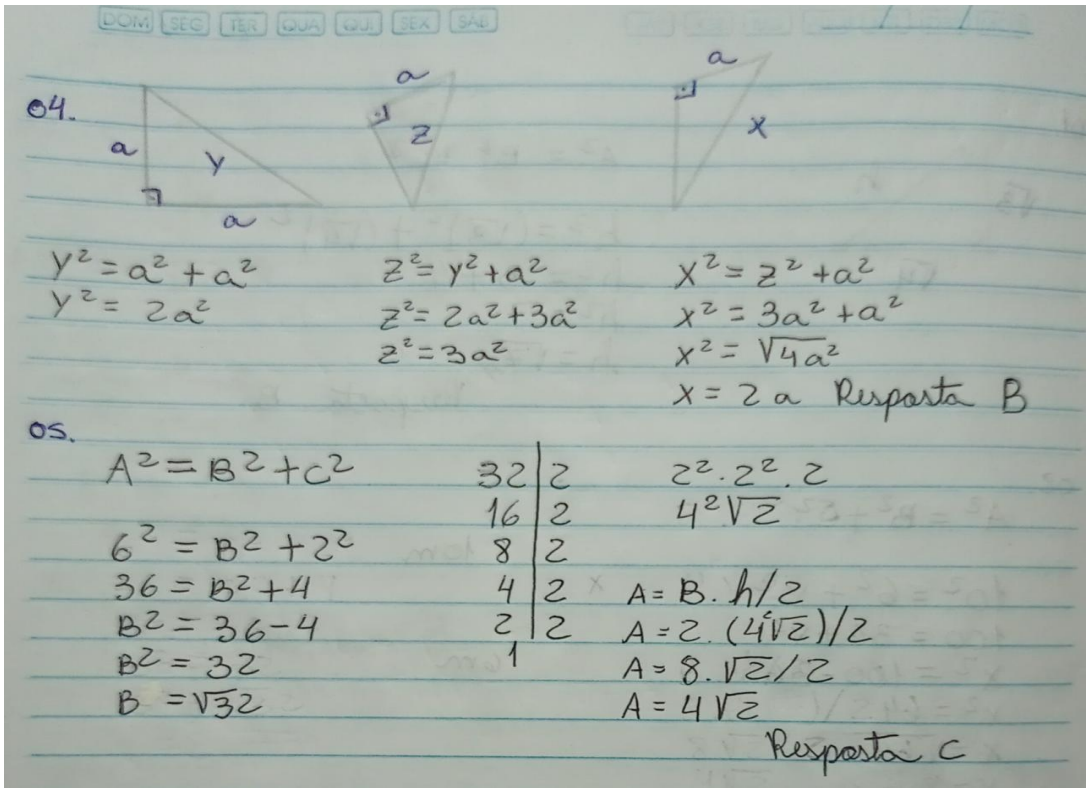
Nome: Mikaela dos Santos Ferreira **Prontuário:**1890336 **CTII-**348

Triângulo Retângulo

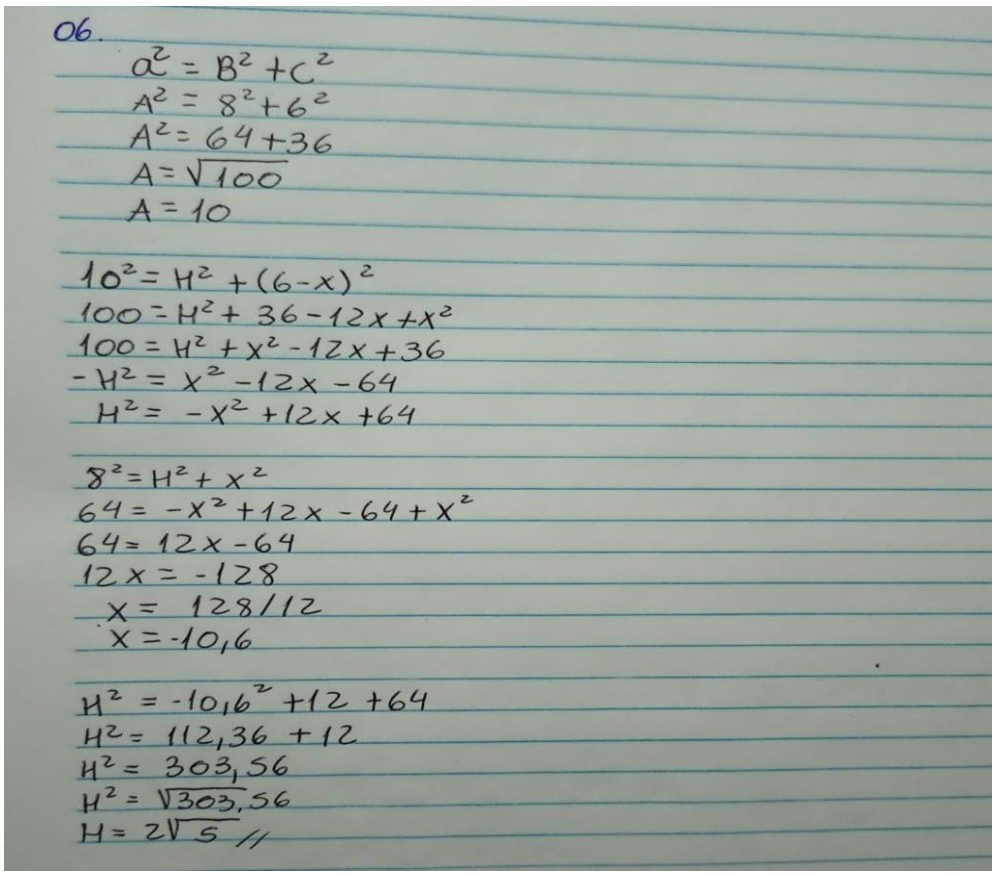
Exercícios 1, 2 e 3



Exercício 4 e 5



Exercício 6



Exercícios 7 e 8

07. Aranha

5. 16 cm = 0,80 m

2,00 m - 0,80 m = 1,20 m

Formiga

5. 10 cm = 0,5 m

$A^2 = B^2 + C^2$

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

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

$A = \sqrt{1,69}$

$A = 1,30$ m

08.

AB

$8^2 = 4^2 + x^2$

$x^2 = 64 - 16$

$x = \sqrt{48}$

48	2
24	2
12	2
6	2
3	3
1	

$x = 4\sqrt{3}$

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

$169 = x^2 + 8x + 16 + 16.3$

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

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

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

$\Delta = B^2 - 4.A.C$

$\Delta = 64 - 4.1.(-105)$

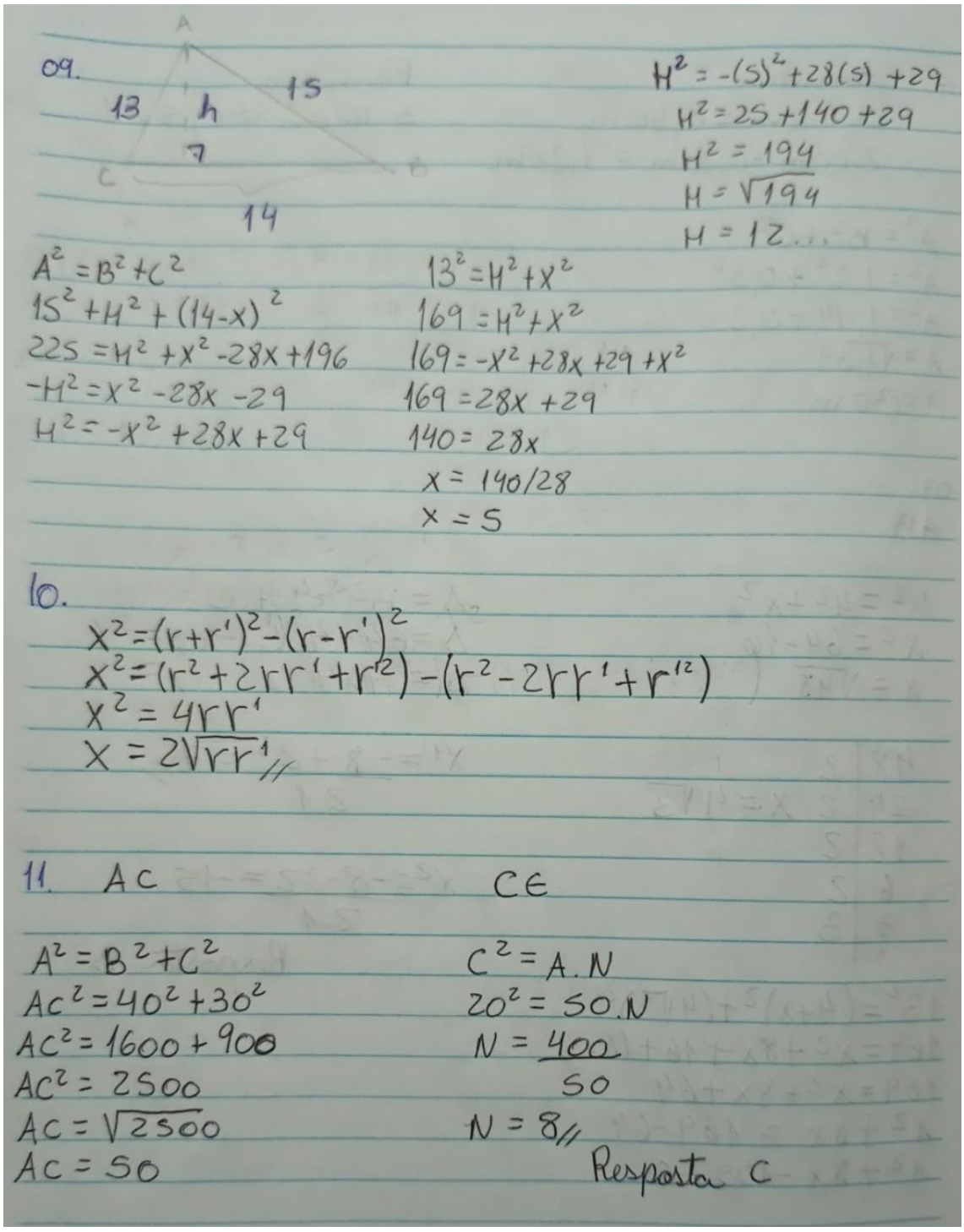
$\Delta = 484$

$x1 = \frac{-8 + 22}{2.1} = 7$ //

$x^2 = \frac{-8 - 22}{2.1} = -15$

Resposta D

Exercícios 9, 10 e 11



09.

$A^2 = B^2 + C^2$

$15^2 + H^2 + (14-x)^2$

$225 = H^2 + x^2 - 28x + 196$

$-H^2 = x^2 - 28x - 29$

$H^2 = -x^2 + 28x + 29$

$13^2 = H^2 + x^2$

$169 = H^2 + x^2$

$169 = -x^2 + 28x + 29 + x^2$

$169 = 28x + 29$

$140 = 28x$

$x = 140/28$

$x = 5$

$H^2 = -(5)^2 + 28(5) + 29$

$H^2 = 25 + 140 + 29$

$H^2 = 194$

$H = \sqrt{194}$

$H = 12...$

10.

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

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

$x^2 = 4rr'$

$x = 2\sqrt{rr'}$ //

11. AC

$A^2 = B^2 + C^2$

$AC^2 = 40^2 + 30^2$

$AC^2 = 1600 + 900$

$AC^2 = 2500$

$AC = \sqrt{2500}$

$AC = 50$

CE

$C^2 = A.N$

$20^2 = 50.N$

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

$N = 8$ //

Resposta C