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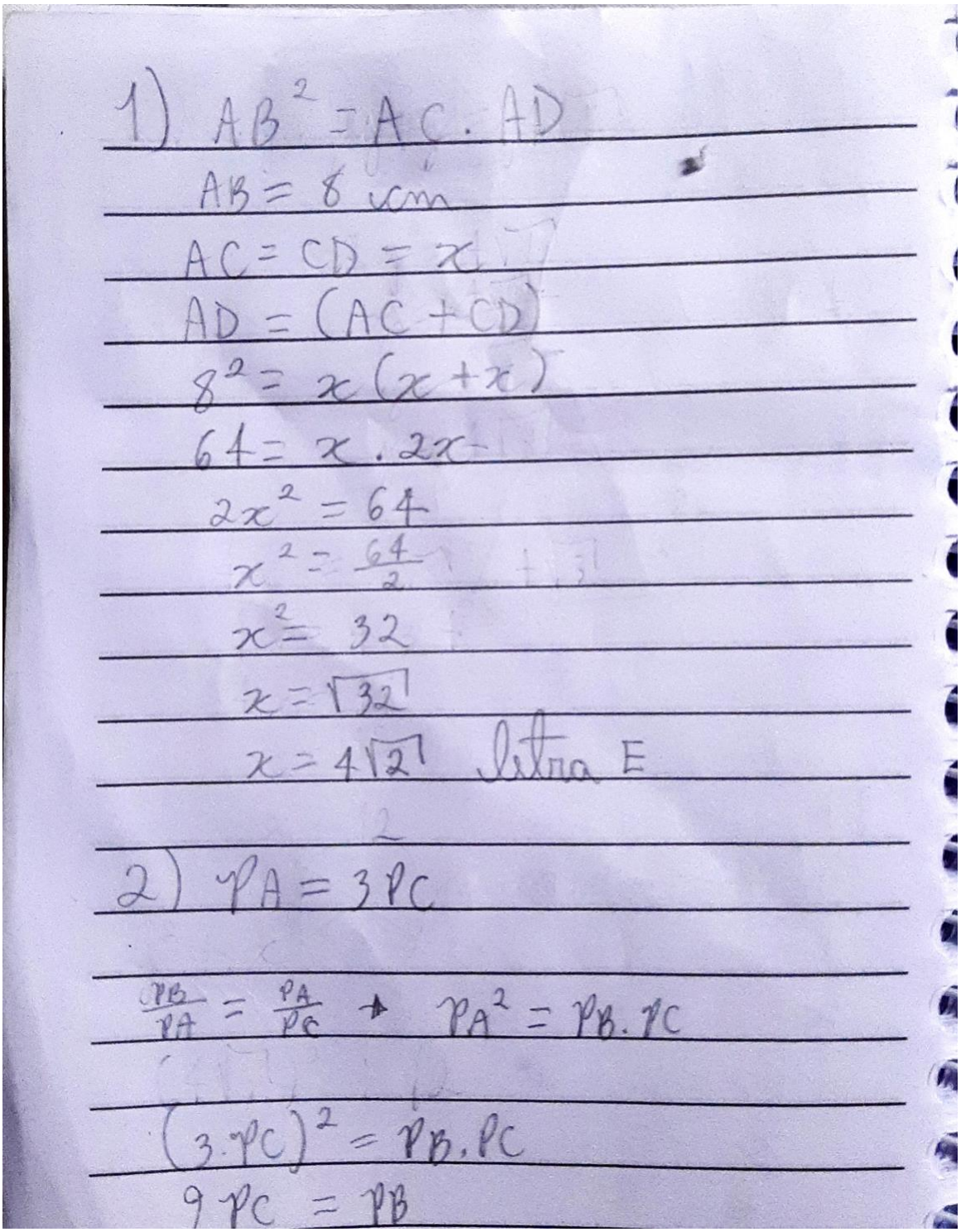
Sala: CTII 317



1) $AB^2 = AC \cdot AD$

$AB = 8$ cm

$AC = CD = x$

$AD = (AC + CD)$

$8^2 = x(x + x)$

$64 = x \cdot 2x$

$2x^2 = 64$

$x^2 = \frac{64}{2}$

$x^2 = 32$

$x = \sqrt{32}$

$x = 4\sqrt{2}$ letra E

2) $PA = 3PC$

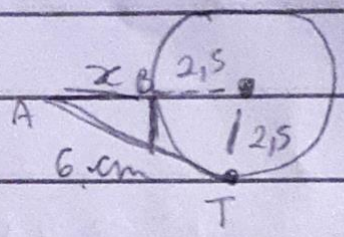
$\frac{PB}{PA} = \frac{PA}{PC} \rightarrow PA^2 = PB \cdot PC$

$(3 \cdot PC)^2 = PB \cdot PC$

$9PC = PB$

$PB = 9PC$ letra B

3)



$(x+2,5)^2 = 2,5^2 + 6^2$

$x^2 + 5x + \frac{25}{4} = (\frac{5}{2})^2 + 36$

$x^2 + 5x + \frac{25}{4} = \frac{25}{4} + 36$

$x^2 + 5x + \frac{25}{4} = \frac{169}{4}$

$x^2 + 5x + \frac{25}{4} - \frac{169}{4} = 0$

$x^2 + 5x - 36 = 0$

$\Delta = b^2 - 4.a.c$

$\Delta = 5^2 - 4.1.(-36)$

$\Delta = 25 + 144$

$\Delta = 169$

4) $AE \cdot EB = 3$

$CE = ED$

$CE \cdot ED = AE \cdot EB = 3$

$CE^2 = 3$

$CE = \sqrt{3}$

$CD = CE + ED = \sqrt{3} + \sqrt{3}$

$CD = 2\sqrt{3}$ letra B

5) $AE \cdot AD = AC \cdot AB$

$(4 + 2R) \cdot 4 = 18 \cdot 8$

$16 + 8R = 144$

$8R = 144 - 16$

$8R = 128$

$R = \frac{128}{8}$

$R = 16$

Perímetro:

$18 + 16 + 20 = 54$

. letra E