

nome: Kemily Teixeira Cruz CT11-317

Tarefa Básica - Área de Quadriláteros e Triângulos

01. a) $S = \frac{36}{400} = 0,09 \text{ m}^2$

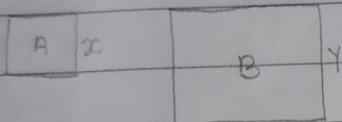
b) $b = h$ $S = b \cdot b = 0,09$ $P = 4 \cdot 0,3 = 1,2 \text{ m}$

$b^2 = 0,09$

$b = \sqrt{0,09}$

$b = 0,3 \text{ m}$

02.



$S_A = x^2$

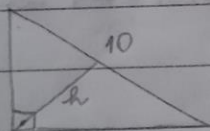
$S_B = S_A \cdot 2 = y^2$

$2x^2 = y^2$

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

$y = \sqrt{2} \cdot x$ letra D

03.

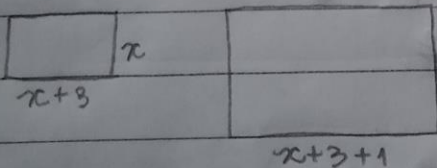


$S = \frac{b \cdot h}{2} \Rightarrow 15 = \frac{10 \cdot h}{2}$

$30 = 10 \cdot h$

$h = 3$ letra D

04.



$S_B = S_A + 16$

$S_B = (x+1) \cdot (x+4)$

$S_B = x \cdot (x+3) + 16$

$S_B = (6+1) \cdot (6+4)$

$x^2 + 5x + 4 = x^2 + 3x + 16$

$S_B = 7 \cdot 10$

$S_B = (x+1) \cdot (x+4)$

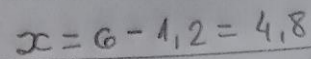
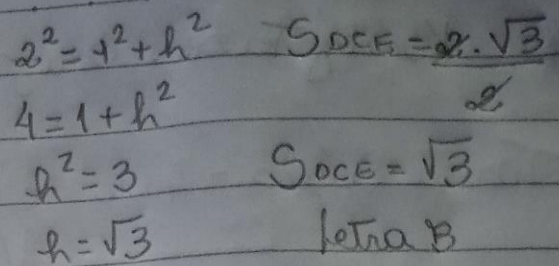
$2x - 12 = 0$

$S_B = 70 \text{ m}^2$

$S_B = x^2 + 5x + 4$

$x = \frac{12}{2}$

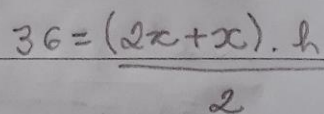
$x = 6$



$$S_B = 7,5 \cdot 4,8 = 36$$

$$S_c = 4 \cdot 0,8 = 3,2$$

Letra E



$$S_{CDEF} = b \cdot h$$

$$S_{\text{COEF}} = \frac{24}{24}$$

$$72 = 3x \cdot h$$

$$h = \frac{72^{24}}{3x}$$

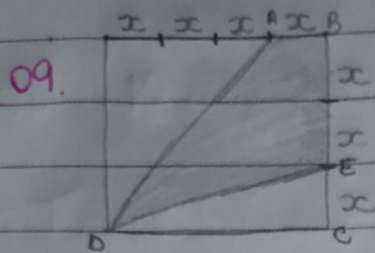
SCDEF = 24 Letra E

$$\frac{h = 24}{x}$$

08. $S_{ABJ} = \underline{6.4^2} = 12$

$$S_{FGHS} = \frac{6.2}{2} = 3$$

$$\frac{S_{FGHJ}}{S_{ABJ}} = \frac{8'}{12^2} = \frac{1}{2} \text{ let's do}$$



$$S_{\text{RET}} = 4x \cdot 3x$$

$$48 = 12x^2$$

$$x^2 = 4$$

$$x = \sqrt{4}$$

$$x = 2$$

$$S_{ABCD} = \frac{(x + 4x) \cdot 3x}{2}$$

$$2$$

$$S_{ABCD} = \frac{(2 + 4 \cdot 2) \cdot 3 \cdot 2}{2}$$

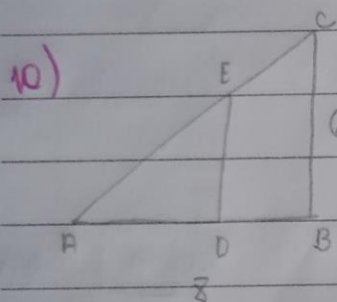
$$2$$

$$S_{ABCD} = 30$$

$$S_{EDC} = \frac{4x \cdot x}{2} = \frac{4 \cdot 2 \cdot 2}{2} = 8$$

$$S_{ABED} = S_{ABCD} - S_{EDC}$$

$$S_{ABED} = 30 - 8 = 22 \text{ tetra E}$$



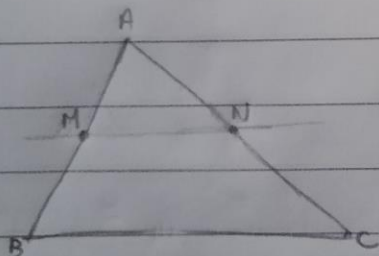
$$\left(\frac{AD}{AB}\right)^2 = \frac{1}{4} \Rightarrow \frac{AD^2}{8^2} = \frac{1}{4}$$

$$2AD^2 = 64$$

$$AD^2 = 32$$

$$AD = \sqrt{32} = 4\sqrt{2} \text{ tetra A}$$

Proporção de semelhança é 1:2



$$K = \left(\frac{1}{2}\right)^2 = \frac{1}{4}$$

$$\frac{S_{AMN}}{S_{ABC}} = \frac{1}{4}$$

$$S_{AMN} = 1$$

$$x = 1$$

$$96 = 4$$

$$4x = 96$$

$$x = 24$$

$$S_{BMNC} = 96 - 24 = 72 \text{ m}^2$$

Proporção de semelhança é 1:2