

Liara Bárbara

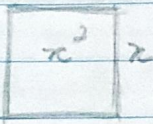
$$1-a) \frac{36}{400} = 0,09 \text{ cm}^2$$

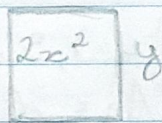
$$b) 0,09 = l^2$$

$$l = \sqrt{0,09}$$

$$l = 0,3 \text{ cm}$$

$$P = 0,3 \cdot 4 = 1,2 \text{ m}^2$$

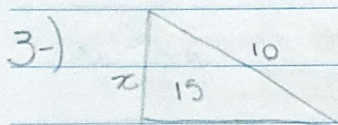
2-) 



$$y^2 = 2x^2$$

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

(D)

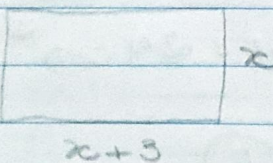


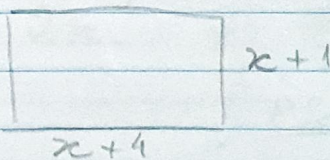
$$15 = \frac{10 \cdot x}{2}$$

$$30 = 10x$$

$$x = 3$$

(D)

4-) 



$$x \cdot x + 3 = x^2 + 3x$$

$$16 + x^2 + 3x = x + 4 \cdot x + 1$$

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

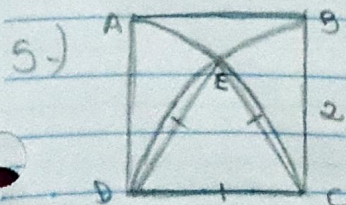
$$x + 4 = 6 + 4 = 10$$

$$-2x = -12$$

$$x + 1 = 6 + 1 = 7$$

$$x = 6$$

$$10 \cdot 7 = 70 \text{ m}^2$$

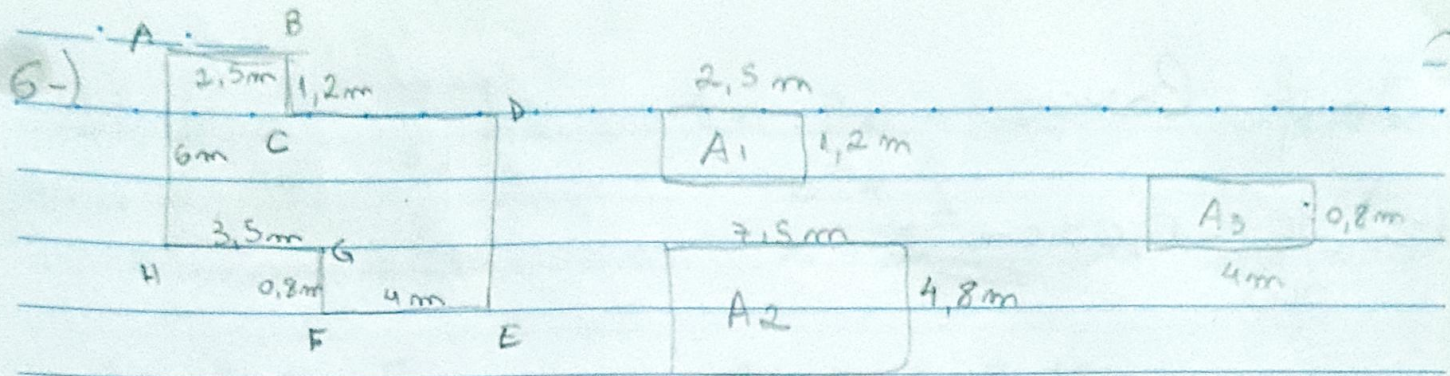


$$A_{\Delta} = \frac{l^2 \sqrt{3}}{4}$$

$$A = \sqrt{3}$$

$$A = \frac{2^2 \sqrt{3}}{4}$$

(B)



$$A_T = A_1 + A_2 + A_3$$

$$A_T = 3 + 36 + 3,2$$

$$A_T = 42,2 \text{ m}^2$$

$$A_1 = 2,5 \cdot 1,2$$

$$A_1 = 3 \text{ m}^2$$

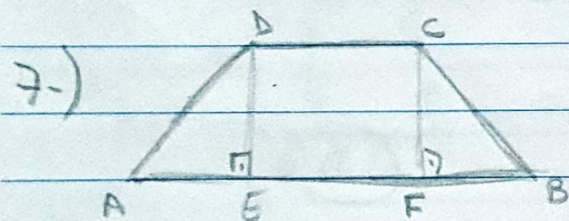
$$A_3 = 4 \cdot 0,8$$

$$A_3 = 3,2 \text{ m}^2$$

$$A_2 = 7,5 \cdot 4,8$$

$$A_2 = 36 \text{ m}^2$$

(E)



$$A_{\square} = 36 \text{ cm}^2$$

$$AB = 2CD$$

$$36 = \frac{(2CD + CD) \cdot DE}{2}$$

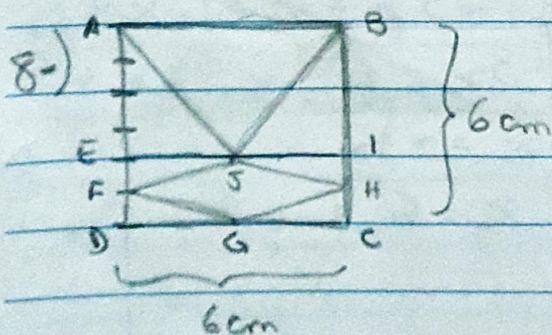
$$A_{CDEF} = \frac{CD \cdot 24}{2}$$

$$72 = 3CD \cdot DE$$

$$A_{CDEF} = 24 \text{ cm}^2$$

$$DE = \frac{72}{3CD} = \frac{24}{CD}$$

(E)

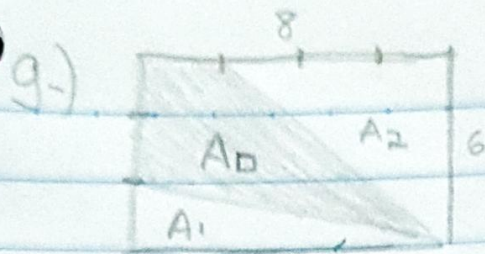


$$A_{\Delta} = \frac{6 \cdot 4}{2} = 12 \text{ cm}^2$$

$$A_{\diamond} = \frac{6 \cdot 2}{2} = 6 \text{ cm}^2$$

$$\frac{6}{12} = \frac{1}{2}$$

(D)



$$4x \cdot 3x = 48$$

$$x^2 = 4$$

$$x = 2$$

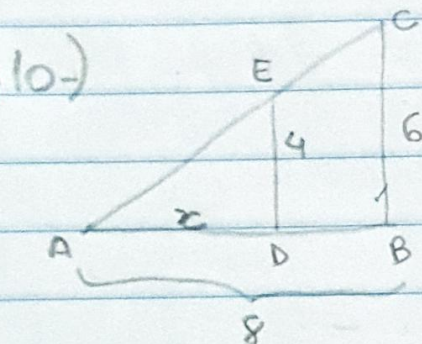
(E)

$$A_1 = \frac{8 \cdot 2}{2} = 8$$

$$A_0 = 48 - 8 - 18$$

$$A_0 = 22$$

$$A_2 = \frac{6 \cdot 6}{2} = 18$$



$$A_{ABC} = \frac{8 \cdot 6}{2} = 24$$

$$A_{ADE} = \frac{4x}{2} = 2x$$

$$\frac{24}{2x} = \left(\frac{3}{2}\right)^2$$

$$\frac{6}{4} = \frac{8}{x} = \frac{3}{2}$$

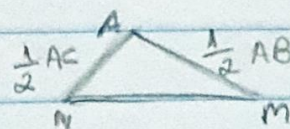
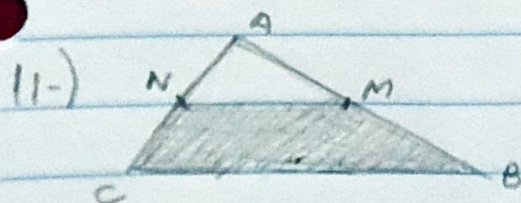
$$2x^2 = 24 \Rightarrow 2x^2 = 16$$

$$\frac{3}{2} \quad x^2 = 8$$

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

$$\left(\frac{3}{2}\right)^2 = \frac{9}{4}$$

(A)



$$A_{AMN} = 24 \text{ m}^2$$

$$K^2 = \frac{1}{2}^2 = \frac{1}{4}$$

$$\frac{1}{4} \cdot 96 = 24$$

$$A_{BMNC} = 96 - 24$$

$$A = 72 \text{ m}^2$$