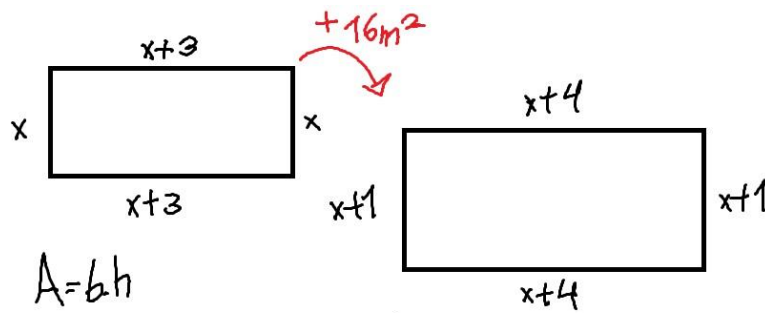


Ex 04.



$$A = b \cdot h$$

$$(x+3) \cdot x$$

$$A = x^2 + 3x \text{ m}^2$$

$$A = b \cdot h$$

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

$$x^2 + x + 4x + 4$$

$$A = x^2 + 5x + 4 \text{ m}^2$$

$$A = x^2 + 5x + 4 \text{ m}^2$$

$$6^2 + 5 \cdot 6 + 4 \text{ m}^2$$

$$36 + 30 + 4 \text{ m}$$

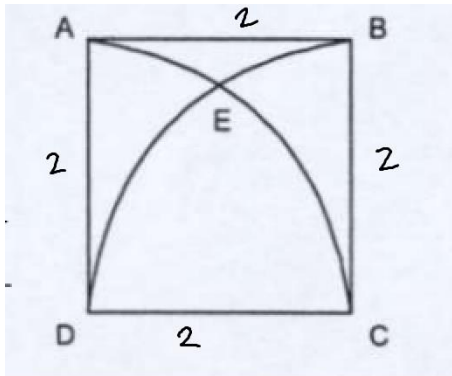
$$\text{Área ampliada} = \underline{\underline{70 \text{ m}^2}}$$

$$x^2 + 3x + 16 \text{ m}^2 = x^2 + 5x + 4 \text{ m}^2$$

$$x^2 - x^2 + 3x - 5x + 16 \text{ m}^2 - 4 \text{ m}^2 = 0$$

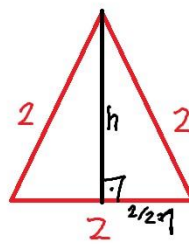
$$-2x + 12 \text{ m}^2 = 0 \Rightarrow x = \frac{+12}{+2} = 6 \text{ m}$$

Ex 05.



Se  $\overline{DC} = 2$ ,  $D$  é o centro do arco, temos:

Raio = 2, e  $E$  sendo ponto das circunferências, tem  $\overline{DE} = \overline{CE} = 2$ . Então,  $\triangle DCE$  é equilátero



$$H^2 = C^2 + C^2$$

$$2^2 = h^2 + 1^2$$

$$4 = h^2 + 1$$

$$h^2 = 4 - 1$$

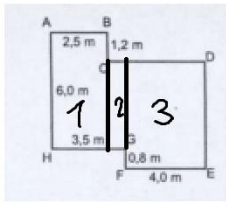
$$h = \sqrt{3}$$

$$\text{Área } DCE = \frac{b \cdot h}{2} = \frac{2 \cdot \sqrt{3}}{2} = \underline{\underline{\sqrt{3}}}$$

Alternativa (B).



Ex 06.



$$A = A_1 + A_2 + A_3$$

$$A_1 = b \cdot h = 2,5 \cdot 6 = 15 \text{ m}^2$$

$$A_3 = b \cdot h = 4 \cdot 5,6 = 22,4$$

(b = 4m)  
(h = 4,8 + 0,8 = 5,6m)

$$A_2 = b \cdot h = 4,8 \cdot 1 = 4,8 \text{ m}^2$$

(h = 6 - 1,2 = 4,8m)  
(b = 3,5 - 2,5 = 1m)

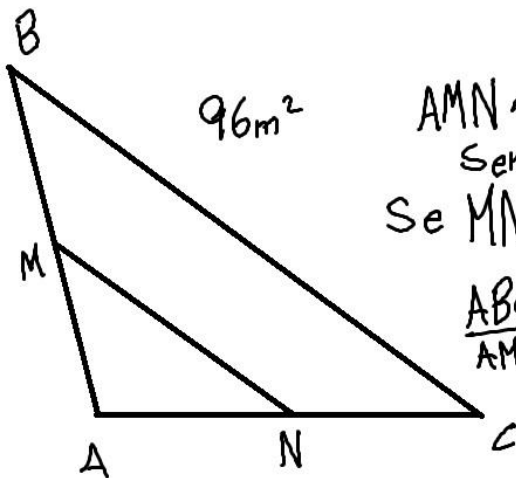


$$A = A_1 + A_2 + A_3$$

$$A = 15 \text{ m}^2 + 4,8 \text{ m}^2 + 22,4 \text{ m}^2$$

$$A = 42,2 \text{ m}^2 = \text{Alternativa (E)}.$$

Ex 11.



$$AMN \sim ABC$$

Semelhantes

$$\text{Se } MN = \frac{1}{2} BC,$$

$$\frac{ABC}{AMN} = k = 2$$

Razão entre áreas:

a razão entre áreas de figuras semelhantes é igual ao quadrado da razão de semelhança dessas figuras!

$$k^2 = 4 \rightarrow \frac{96}{S} = 4 \rightarrow S = 24 \text{ cm}^2$$

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