Nome: Arthur Hernandes Silva de Souza **CTII 350**

Área de quadriláteros e retângulos

①

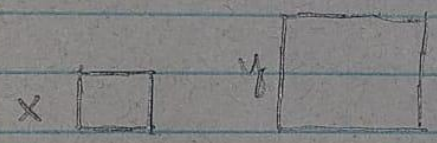
a) $36\ m^2$

$\frac{36}{400} = 0,09$ $0.09\ m^2$

b) $\sqrt{0.09m} = 0,3m$

$0,3m * 4 = 1.2\ m$ $1.2\ m$

②

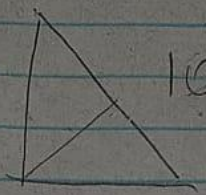


$A = x^2$ $A = 2x^2$

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

Letra D

③



$a = 15$

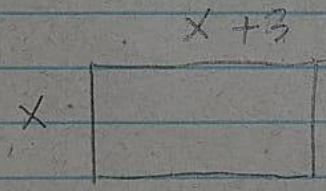
$$\frac{b \cdot h}{2} = A \qquad \frac{10 \cdot h}{2} = 15$$

$$10 \cdot h = 30$$

$$h = \frac{30}{10} \qquad h = 3$$

Letra B

④



$$(x+1)(x+4) = x(x+3) + 16$$

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

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

$$2x - 12 = 0$$

$$2x = 12$$

$$x = 6$$

$$6 \cdot 9 + 16 = 70\ m^2$$

⑤

$1 + h^2 = 4$

$h^2 = 3$

$h = \sqrt{3}$

$A = \frac{b \cdot h}{2}$ $\quad A = \frac{2 \cdot \sqrt{3}}{2}$

$A = \sqrt{3}$ Letra B

⑥

$HG + FE = 7,5\ m$

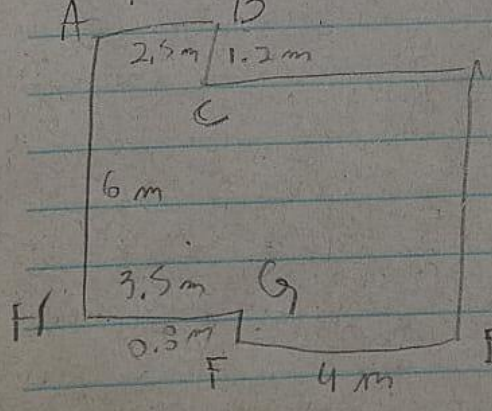
$AH + GF = 6,8\ m$

$(HG + FE) \cdot (AH + GF) = 51$

$51 - (HG \cdot GF) = 48,2$

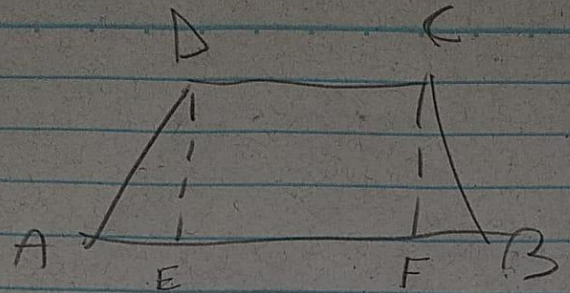
$(7,5 \cdot 1,2) - (1,2 \cdot 2,5) = 6$

$48,2 - 6 = 42,2$



Letra E

(7)



$A = 36\,cm^2$

$AB = 2DC$

$AE + FB = DC$

$$\frac{DC \cdot DE}{2} + DC \cdot DE = 36$$

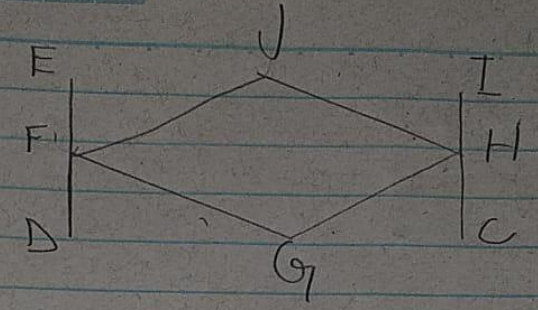
$$DC \cdot DE + 2(DC \cdot DE) = 72$$

$$3(DC \cdot DE) = 72$$

$$DC \cdot DE = 24$$

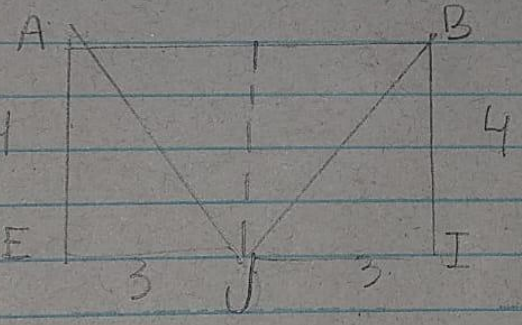
Letra E

(8)



EI = 6
ED = 2

Area FGHJ = $\frac{d \cdot D}{2} = \frac{6 \cdot 2}{2} = 6$



Area ABJ = 4.3 = 12

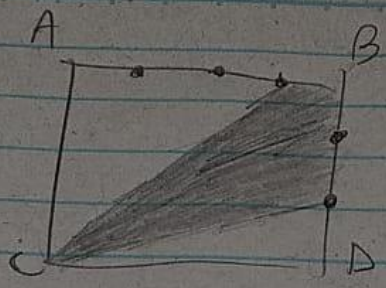
$\frac{6}{12}$

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

Letra D

Seg Ter Qua Qui Sex Sáb Dom

(9)



$3x \cdot 4x = 12x^2$

$12x^2 = 48$

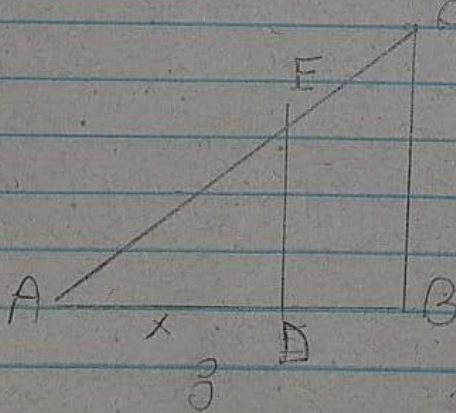
$x^2 = 4 \quad x = 2$

$\frac{6 \cdot 6}{2} = 18 \quad | \quad \frac{8 \cdot 2}{2} = 8$

$48 - 18 - 8 = 22$

Letra E

(10)



$\left(\frac{x}{8}\right)^2 = \frac{1}{2}$

$\frac{x^2}{64} = \frac{1}{2} \quad 2x^2 = 64$

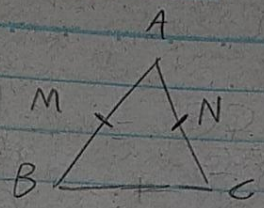
$x^2 = 32$

$x = 4\sqrt{2}$

Letra A

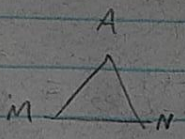
Seg | Ter | Qua | Qui | Sex | Sáb | Dom

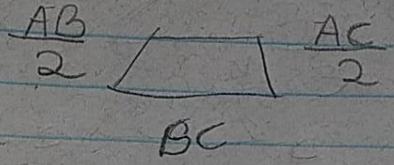
11



$A = 96$

$\frac{AM}{AB} = \frac{AN}{AC} = \frac{1}{2}$





$\frac{A}{A'} = k^2 \quad \left| \quad \frac{x}{96} = \frac{1}{4} \quad \right| \quad 4x = 96 \quad x = 24$

$\triangle ABC - \triangle AMN = 96 - 24 = 72\ m^2$

Área $BMNC = 72\ m^2$