

grupo
 de Modelamiento
 de sistemas

Nombre: Martin Valdivia
 Curso: 2 A

1) pregunta 2:

a)

	grupo 1		
	hombres	Mujeres	
conductores	2	2 = 4	} 10
No conductores	4	2 = 6	

b)

	grupo 2		
	hombres	Mujeres	
conductores	6	4 = 10	
No conductores	5	5 = 10	

$$b) \quad \frac{6}{14} = \frac{x}{100}$$

$$= 42,85\%$$

$$c) \quad 16 : 14 = \frac{16}{14} = \frac{8}{7} = 8 : 7$$

$$d) \quad \frac{9}{20} = \frac{x}{100} = 45\%$$

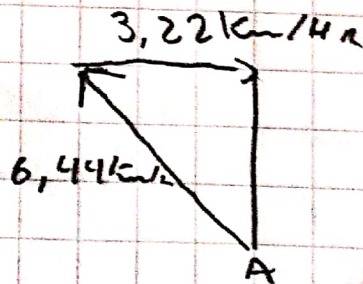
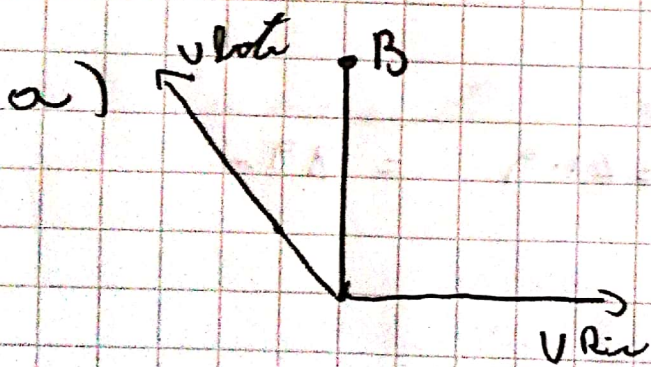
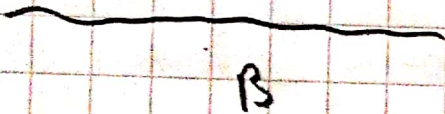
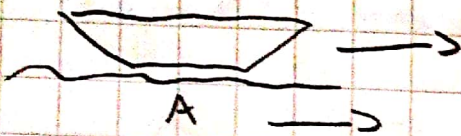
$$e) \quad 7 : 13 = 7 : 13$$

Pregunta 2



$$V = 6,44 \text{ (km/hr)}$$

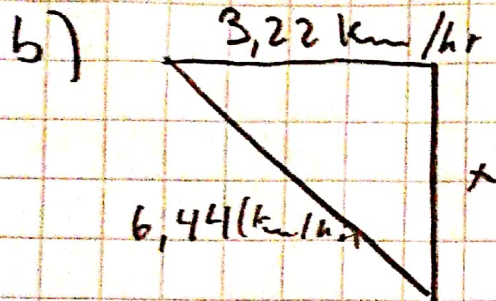
"agua corriente"



$$\text{sen } \alpha = \frac{3,22}{6,44}$$

$$\alpha = 30^\circ$$

$\therefore$ dirección moviéndose en 30°



$$h^2 = a^2 + b^2$$

$$(6,44)^2 = (3,22)^2 + x^2$$

$$x = \sqrt{(6,44)^2 - (3,22)^2}$$

$$x = 5,58$$

$$T = \frac{6,44}{5,58} \approx 1,15 \text{ hr}$$

aprox

c)

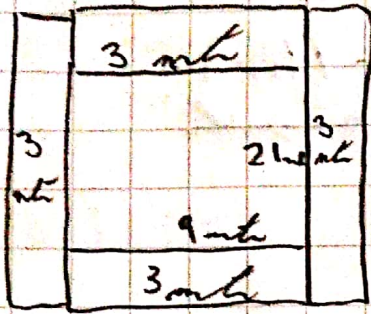
$$\text{tiempo en agua} = \frac{3,22}{9,66} = 0,33 \text{ hr}$$

$$\text{tiempo en volar} = \frac{3,22}{3,22} = 1$$

$$\Sigma \text{ tiempo} = 0,33 + 1 = 1,33 \text{ } \left. \vphantom{\Sigma \text{ tiempo}} \right\} \text{ tiempo total}$$

pregunta 3:

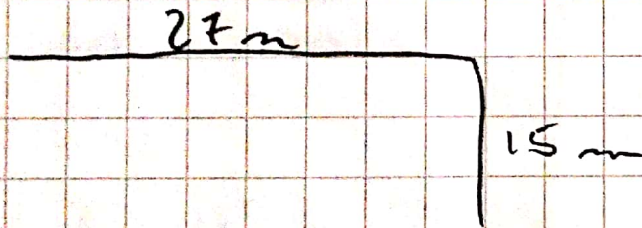
a)



$$\frac{7}{L} = \frac{3}{A}$$

$$\frac{L}{A} = \frac{21}{9}$$

b)



$$A' = 15 \cdot 27$$

$$A_{\text{amb}} = 21 \cdot 9 = 189 \text{ m}^2$$

$$A' = 405 \text{ m}^2$$

$$\text{Área pintada} = 405 - 189 (\text{m}^2) = 216 \text{ m}^2$$

$$R = \text{Área pintada con } 216 \text{ m}^2 //$$

1) 1 galón $\rightarrow 10 \text{ m}^2 \rightarrow 1 \text{ mano (2 manos)}$

1 galón $\rightarrow 1 \text{ mano}$

$\rightarrow 2 \text{ manos}$

2 galones

1 galón $\rightarrow 10 \text{ m}^2$

x $\rightarrow 216 \text{ m}^2$

x = 21,6 galones

manos $\rightarrow 43,2 \text{ galones}$

Se necesitan 43,2 galones de esmalte