

Prueba nº1 Mod de Sistemas  
 nombre: M. Constanzo B. curso: 2º D.

Pregunta 1:

a)

|   | Grupo 1 |         |      |
|---|---------|---------|------|
|   | cond    | No cond |      |
| H | 2       | 4       | =    |
| M | 2       | 2       | =    |
|   | 4       | 6       | = 10 |

|   | Grupo 2 |         |      |
|---|---------|---------|------|
|   | cond    | No cond |      |
| H | 6       | 5       | = 11 |
| M | 4       | 5       | = 9  |
|   | 10      | 10      | = 20 |

b) % mujeres conductoras respecto del total de cond de ambos cursos

$$\begin{array}{lcl} 14 \text{ cond} & \longrightarrow & 100\% \\ 6 & \longrightarrow & x \end{array}$$

$$x = 42,86\% \text{ mujeres cond.}$$

c) Proporción de no conduct., resp. del t. de los conduct.

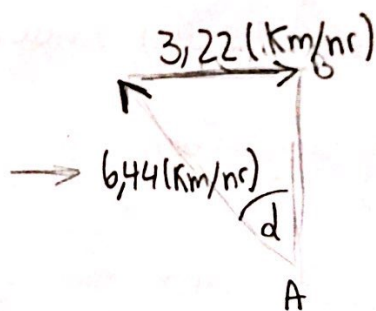
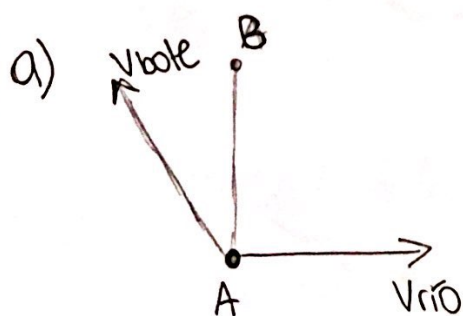
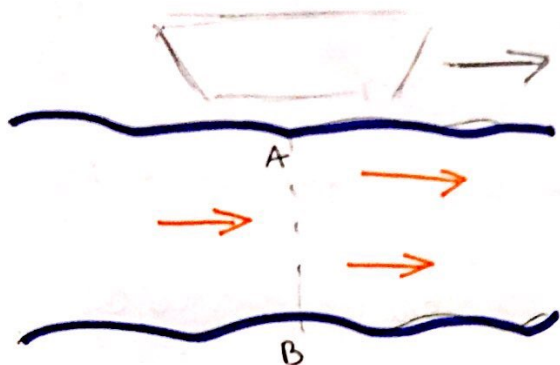
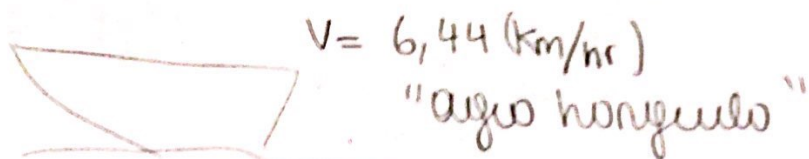
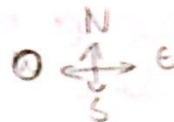
$$\frac{\sum \text{no conduct}}{\sum \text{sí conduct}} = \frac{16}{14} = \frac{8}{7} \text{ } \left. \vphantom{\frac{16}{14}} \right\} \text{ proporción}$$

d) % de hombres cond, respect Total pers grupo 2.

$$\begin{array}{lcl} 20 & \longrightarrow & 100\% \\ 9 & \longrightarrow & x \end{array} \Rightarrow 45\% \text{ de hombres cond.}$$

e)  $\frac{7}{13}$

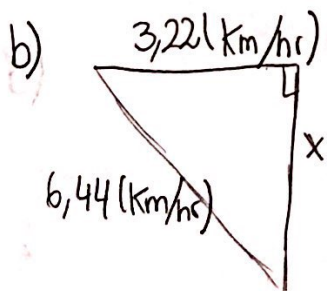
# Pregunta 2:



$$\sin d = \frac{3,22}{6,44}$$

$$d = 30^\circ$$

∴ Dirección Noreste en  $30^\circ$



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

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

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

$$x = 5,58$$

$$t = \frac{6,44}{5,58} \approx 1,15 \text{ hrs aprox.}$$

$$c) \text{ tiempo río abajo} = \frac{3,22}{9,66} = 0,33 \text{ hrs}$$

$$\text{Tiempo volver} = \frac{3,22}{3,22} = 1$$

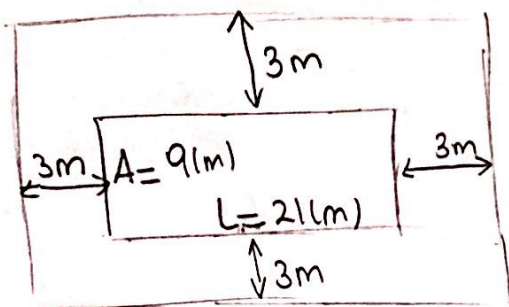
$$\begin{array}{r} 6,44 \\ - 3,22 \\ \hline 3,22 \end{array}$$

$$\Sigma \text{Tiempo} = 0,33 + 1 = 1,33 \text{ } \left. \begin{array}{l} \text{Tiempo} \\ \text{Total} \end{array} \right\}$$

$$V = \frac{3,22}{9,66}$$

# Pregunta 3:

a)



$$\text{Largo} = \frac{7}{3} A$$

$$\frac{21}{\frac{7}{3}} = A \Rightarrow \text{ancho} = 9\text{m}$$

b)  $\frac{21}{A} = \frac{7}{3} \Rightarrow A = \frac{21 \cdot 3}{7} \Rightarrow \boxed{A = 9}$

area p.  $A = 15 \cdot 27$   
 $A = 405 \text{ m}^2$

area  
 ancho  $= 21 \cdot 9 = 189 \text{ m}^2$

area pintar  $= 405 \text{ m}^2 - 189 \text{ m}^2$   
 $= 216 \text{ m}^2$  y será el área a pintar.

c)  $1 \text{ galón} \rightarrow 10 \text{ m}^2$   
 $x \rightarrow 216$

pero:  
 $1 \text{ galón} \rightarrow 1 \text{ mano}$   
 $x \rightarrow 2 \text{ manos}$   
 $x = 2 \text{ galón}$

$x = 21,6 \text{ galones}$

$\rightarrow 21,6 \times 2$

$43,2$

R// se necesita 43,2 galones de esmalte  
 pero pintar aprox 44.