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2° Daga.
17 de Agosto, 2020

Prueba n°1
Modelamiento de sistemas

Pregunta n° 1.

a)

Grupo 1

	Hombres	Mujeres
Conductores	2	2
No Conductores	4	2

Grupo 2.

	Hombres	Mujeres.	
Conductores	6	4	10
No conductores	5	5	10
			20 //

b) $\frac{6}{14} \cdot 100 = 42,86\ \%$.

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

d) $\frac{9}{20} \cdot 100 = 45\ \%$.

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

Escaneado con CamScanner

17/08/2020.

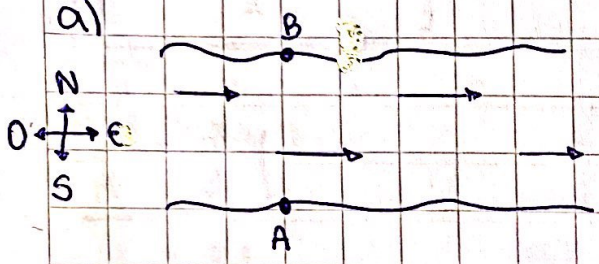
Pregunta nº2.

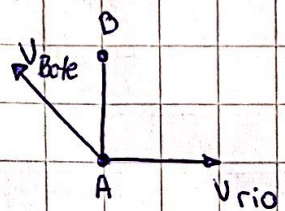
Datos:

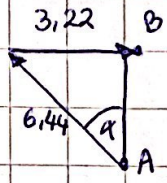
6,44 Kmm/h → aguas tranquilas

Corriente → 3,22 Kmm/h.

a)





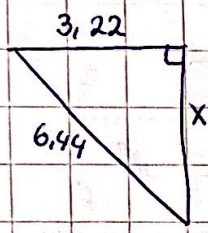


$\text{sen}\ \alpha = \frac{3,22}{6,44}$

$\alpha = 30°$

"Dirección noreste en 30°"

b)



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

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

$x = 5,58.$

$v = \frac{d}{t}$ $\quad t = \frac{d}{v}$

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

c) $t_{\text{rio abajo}} = \frac{3,22}{3,22 + 6,44} = 0,33$ hrs ; $t_{\text{volver}} = \frac{3,22}{6,44 - 3,22} = \frac{3,22}{3,22} = 1$

Tiempo volver = 1 hora.

Total = 0,33 + 1 = 1,33. //

Escaneado con CamScanner

Pregunta 3°

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

$L = 21$

$\frac{21}{A} = \frac{7}{3}$

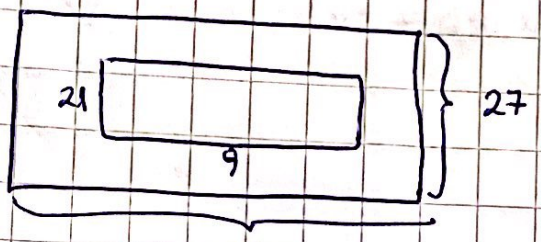
$A = \frac{21 \cdot 3}{7}$

$A = 9.$

$10\ m^2 \rightarrow$ 1 galón

se requieren 2 manos.

A)



15.

405 189.

B) A pintar = $(27 \cdot 15 - 21 \cdot 9) \cdot 2.$

$A_p =$ 216 m^2

C) $10\ m^2 \rightarrow$ 1 galón $\quad x = \frac{432}{10} = 43,2$ galones

$432\ m^2 \rightarrow x$ de esmaltado

Escaneado con CamScanner