



Mi Universidad

Ejercicios

Nombre del Alumno: Hector Elián Alejandro Villarreal

Nombre del tema: Sistemas de Coordenadas

Parcial: 1

Nombre de la Materia:

Nombre del profesor: Jorge Enrique Albores Aguilar

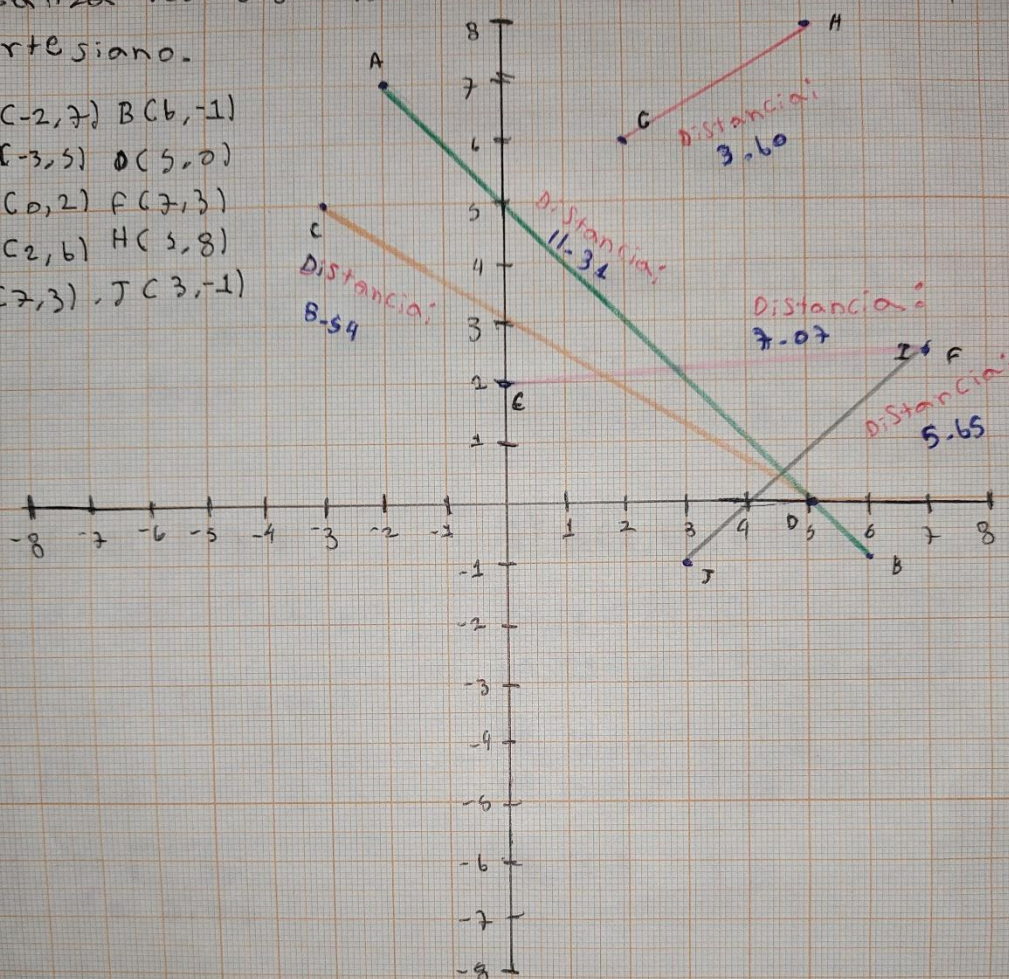
Nombre de la Licenciatura: Bachillerato en Recursos Humanos

Cuatrimestre: 3er

Ejercicio 1:

Localiza los siguientes pares de recta en el plano cartesiano.

- a) $A(-2, 7)$ $B(6, -1)$
- b) $C(-3, 5)$ $D(5, 0)$
- c) $E(0, 2)$ $F(7, 3)$
- d) $G(2, 6)$ $H(5, 8)$
- e) $I(7, 3)$ $J(3, -1)$



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Ejercicio: 1

a) A (-2, 7), B (6, -1)

$$P_1, P_2 = \sqrt{(6 - (-2))^2 + (-1 - 7)^2}$$

$$P_1, P_2 = \sqrt{(8)^2 + (-8)^2}$$

$$P_1, P_2 = \sqrt{64 + 64}$$

$$P_1, P_2 = \sqrt{128}$$

$$P_1, P_2 = 11.31$$

b) C (-3, 5), D (5, 0)

$$P_2, P_3 = \sqrt{(5 - (-3))^2 + (0 - 5)^2}$$

$$P_2, P_3 = \sqrt{(8)^2 + (-5)^2}$$

$$P_2, P_3 = \sqrt{64 + 25}$$

$$P_2, P_3 = \sqrt{89}$$

$$P_2, P_3 = 9.43$$

c) E (0, 2), F (7, 3)

$$P_3, P_4 = \sqrt{(7 - 0)^2 + (3 - 2)^2}$$

$$P_3, P_4 = \sqrt{(7)^2 + (1)^2}$$

$$P_3, P_4 = \sqrt{49 + 1}$$

$$P_3, P_4 = \sqrt{50}$$

$$P_3, P_4 = 7.07$$

d) G (2, 6), H (5, 8)

$$P_4, P_5 = \sqrt{(5 - 2)^2 + (8 - 6)^2}$$

$$P_4, P_5 = \sqrt{(3)^2 + (2)^2}$$

$$P_4, P_5 = \sqrt{9 + 4}$$

$$P_4, P_5 = \sqrt{13}$$

$$P_4, P_5 = 3.61$$

e) I (2, 3), J (3, -1)

$$P_5, P_6 = \sqrt{(3 - 2)^2 + (-1 - 3)^2}$$

$$P_5, P_6 = \sqrt{(1)^2 + (-4)^2}$$

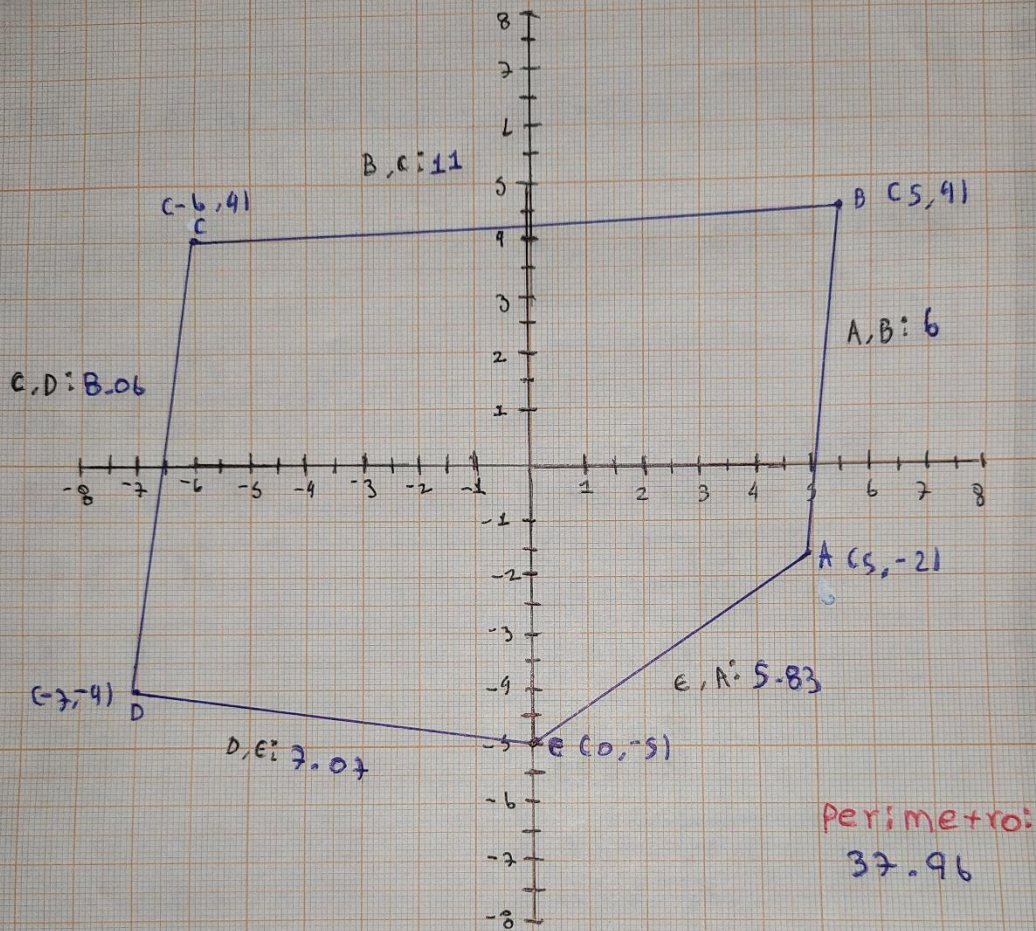
$$P_5, P_6 = \sqrt{16 + 1}$$

$$P_5, P_6 = \sqrt{17}$$

$$P_5, P_6 = 4.12$$

Ejercicio 2:

Observa la Imagen y resuelve lo siguiente.



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Ejercicio 2:

Medidas:

$$A(5, 2)$$

$$B(5, 4)$$

$$A, B = \sqrt{(5-5)^2 + (4-2)^2}$$

$$A, B = \sqrt{0 + 4}$$

$$A, B = \sqrt{0 + 36}$$

$$A, B = \sqrt{36}$$

$$A, B = 6$$

$$C(6, 4)$$

$$D(7, -4)$$

$$C, D = \sqrt{(7-6)^2 + (-4-4)^2}$$

$$C, D = \sqrt{1 + 64}$$

$$C, D = \sqrt{65}$$

$$C, D = 8.06$$

$$C, D = 8.06$$

$$E(0, -5)$$

$$A(5, -2)$$

$$E, A = \sqrt{(5-0)^2 + (-2-(-5))^2}$$

$$E, A = \sqrt{25 + 9}$$

$$E, A = \sqrt{25 + 9}$$

$$E, A = \sqrt{34}$$

$$E, A = 5.83$$

$$A(5, -2)$$

$$B(5, 4)$$

$$B(5, 4)$$

$$C(6, 4)$$

$$B, C = \sqrt{(6-5)^2 + (4-4)^2}$$

$$B, C = \sqrt{1 + 0}$$

$$B, C = \sqrt{1 + 0}$$

$$B, C = \sqrt{1}$$

$$B, C = 1$$

$$D(7, -4)$$

$$E(0, -5)$$

$$D, E = \sqrt{(0-7)^2 + (-5-(-4))^2}$$

$$D, E = \sqrt{49 + 1}$$

$$D, E = \sqrt{50}$$

$$D, E = 7.07$$

$$D, E = 7.07$$

Perimetro

$$37.96$$