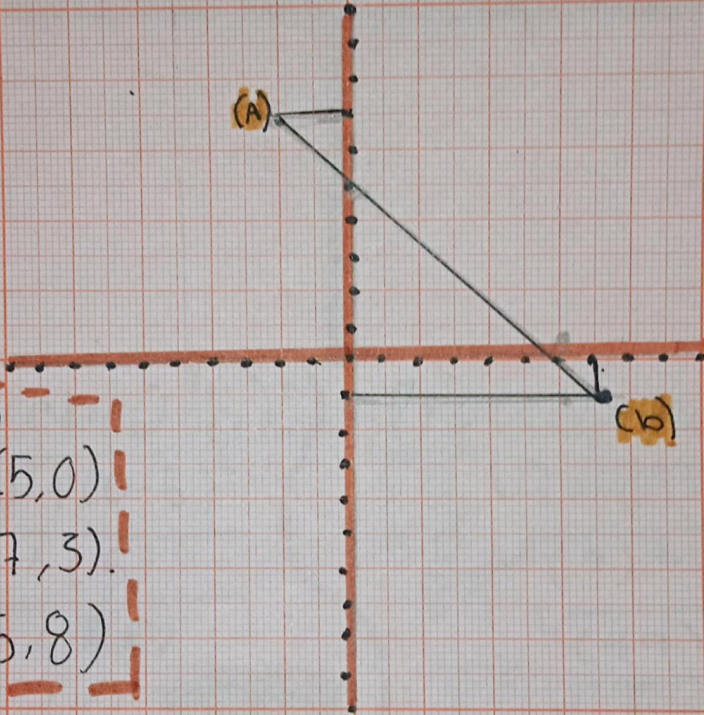


# Actividad 1

Localiza los sig. pares de puntos en el plano Cartesiano, únelos con una línea y encuentra la distancia entre ellos.



- 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)

Formula

$$\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

$$A = (-2, 7)$$
$$B = (6, -1)$$

$$\overline{AB} = \sqrt{(6 - (-2))^2 + (-1 - 7)^2}$$

$$\overline{AB} = \sqrt{(8)^2 + (-8)^2}$$

$$\overline{AB} = \sqrt{(64) + (64)}$$

$$\overline{AB} = \sqrt{128}$$

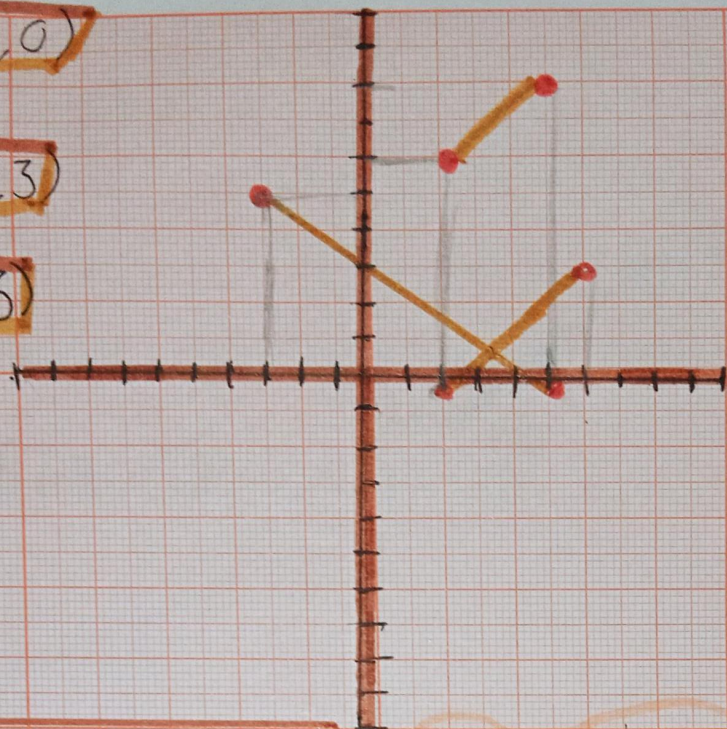
$$\overline{AB} = \sqrt{11.31}$$

11.31

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

c)  $E(0, 2), D(7, 3)$

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

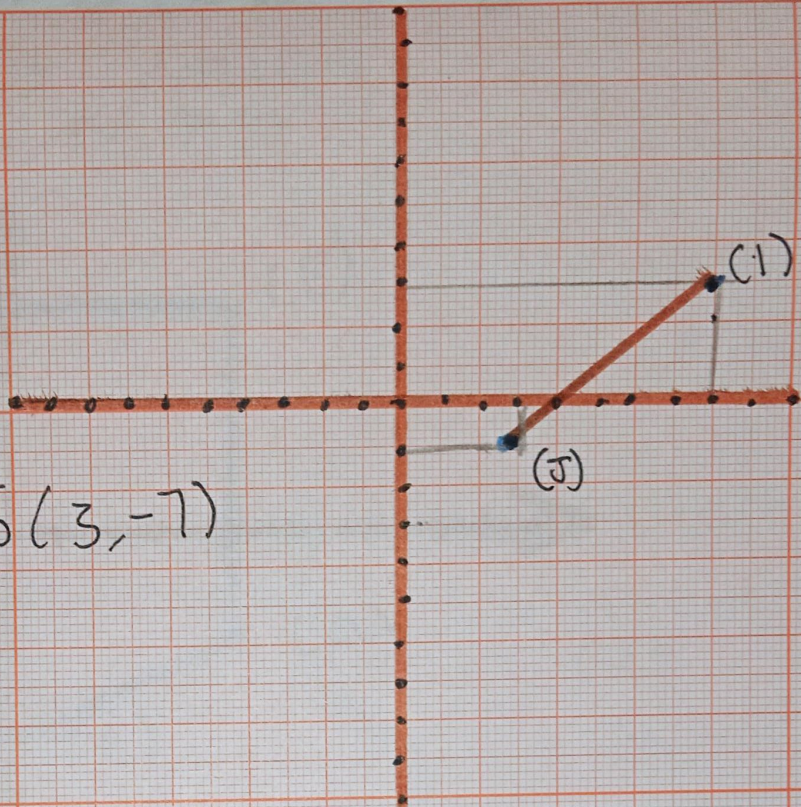


Procedimiento (b):  
 $\overrightarrow{CD} = \sqrt{5 - (-3)^2 + (0 - 5)^2}$   
 $\overrightarrow{CD} = \sqrt{(8)^2 + (-5)^2}$   
 $\overrightarrow{CD} = \sqrt{(64) + (25)}$   
 $\overrightarrow{CD} = \sqrt{89} \quad \overrightarrow{CD} = 9.43$

Procedimiento (c):  
 $\overrightarrow{ED} = \sqrt{(7 - 0)^2 + (3 - 2)^2}$   
 $\overrightarrow{ED} = \sqrt{(7)^2 + (1)^2}$   
 $\overrightarrow{ED} = \sqrt{(49) + (1)}$   
 $\overrightarrow{ED} = \sqrt{50} \quad \overrightarrow{ED} = 7.07$

Procedimiento (d):

$$\overrightarrow{GH} = \sqrt{(5 - 2)^2 + (5 - 6)^2}$$
$$\overrightarrow{GH} = \sqrt{(3)^2 + (-1)^2}$$
$$\overrightarrow{GH} = \sqrt{(9) + (1)}$$
$$\overrightarrow{GH} = \sqrt{10}$$
$$\overrightarrow{GH} = 3.16$$



$$e) I(7, 3), J(3, -1)$$

procedimiento (e)

$$\overrightarrow{IJ} = \sqrt{(7 - 3)^2 + (3 - (-1))^2}$$

$$\overrightarrow{IJ} = \sqrt{(4)^2 + (4)^2}$$

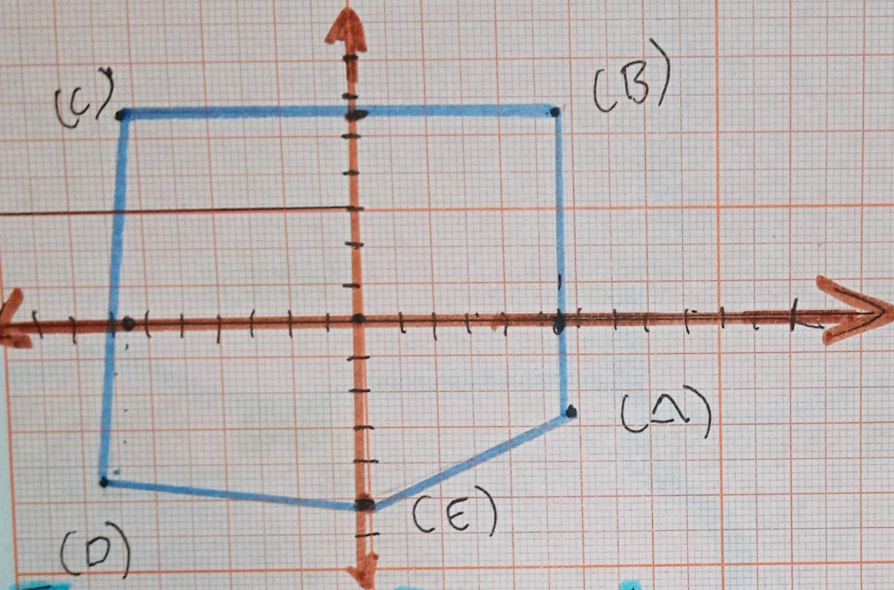
$$\overrightarrow{IJ} = \sqrt{(16) + (16)}$$

$$\overrightarrow{IJ} = \sqrt{32}$$

$$\overrightarrow{IJ} = 5.65$$

# Actividad 2

Observa la imagen  
y resuelve lo sig.



Encuentra la medida de  
cada lado del Polígono

- a) 7.07
- b) 11.04
- c) 9
- d) 15.62
- e) 7

¿Cuál es el Perímetro del  
Polígono?

49.73

# Operaciones

Punto (A)

$$\overrightarrow{AB} = \sqrt{(4 - (-5))^2 + (5 - (-2))^2}$$

$$AB = \sqrt{(-1)^2 + (7)^2}$$

$$\overrightarrow{AB} = \sqrt{(1) + (49)}$$

$$\overrightarrow{AB} = \sqrt{50}$$

$$AB = 7.07$$

Punto (B)

$$\overrightarrow{BC} = \sqrt{(-7 - 4)^2 + (4 - 5)^2}$$

$$BC = \sqrt{(-11)^2 + (-1)^2}$$

$$\overrightarrow{BC} = \sqrt{(121) + (1)}$$

$$\overrightarrow{BC} = \sqrt{122}$$

$$BC = 11.04$$

Punto (C)

$$\overrightarrow{CD} = \sqrt{(-7 - (-7))^2 + (-5 - 4)^2}$$

$$CD = \sqrt{(0)^2 + (-9)^2}$$

$$\overrightarrow{CD} = \sqrt{(0) + (81)}$$

$$\overrightarrow{CD} = \sqrt{81}$$

$$CD = 9$$

Punto (D)

$$\overrightarrow{DE} = \sqrt{(5 - (-7))^2 + (-5 - (-5))^2}$$

$$DE = \sqrt{(12)^2 + (10)^2}$$

$$\overrightarrow{DE} = \sqrt{(144) + (100)}$$

$$\overrightarrow{DE} = \sqrt{244}$$

$$DE = 15.62$$

Punto (E)

$$\overrightarrow{EA} = \sqrt{(5 - 5)^2 + (-2 - 5)^2}$$

$$EA = \sqrt{(0)^2 + (-7)^2}$$

$$\overrightarrow{EA} = \sqrt{(0) + (49)}$$

$$\overrightarrow{EA} = \sqrt{49}$$

$$EA = 7$$

## Perimetro

$$7.07$$

$$+ 11.04$$

$$9$$

$$+ 15.62$$

$$+ 7$$

$$49.73$$