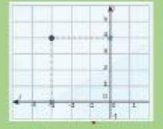


Perímetro y Área de polígonos

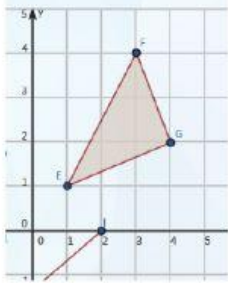
-ejercicios-



Mtra. Zulma Dennis

1. Determina el perímetro del polígono.

Perímetro: Triángulo E(,) G(,) F(,)



Segmento E(,) G(,)

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

$$d = \sqrt{(\quad - \quad)^2 + (\quad - \quad)^2}$$

$$d = \sqrt{(\quad)^2 + (\quad)^2}$$

$$d = \sqrt{(\quad) + (\quad)}$$

$$d = \sqrt{(\quad)}$$

$$d = \underline{\hspace{2cm}}$$

Segmento G(,) F(,)

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

$$d = \sqrt{(\quad - \quad)^2 + (\quad - \quad)^2}$$

$$d = \sqrt{(\quad)^2 + (\quad)^2}$$

$$d = \sqrt{(\quad) + (\quad)}$$

$$d = \sqrt{(\quad)}$$

$$d = \underline{\hspace{2cm}}$$

Segmento F(,) E(,)

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

$$d = \sqrt{(\quad - \quad)^2 + (\quad - \quad)^2}$$

$$d = \sqrt{(\quad)^2 + (\quad)^2}$$

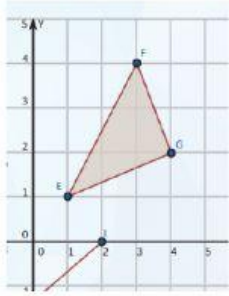
$$d = \sqrt{(\quad) + (\quad)}$$

$$d = \sqrt{(\quad)}$$

$$d = \underline{\hspace{2cm}}$$

Perímetro: _____ u

2. Determina el área del polígono.



Área del Triángulo E(,) G(,) F(,)

$$A = \frac{1}{2} \begin{vmatrix} X_1 & Y_1 \\ X_2 & Y_2 \\ X_3 & Y_3 \\ X_1 & Y_1 \end{vmatrix}$$

$$A = \frac{1}{2} \begin{vmatrix} \square & \square \\ \square & \square \\ \square & \square \\ \square & \square \end{vmatrix}$$

$$A = \frac{1}{2} |[() () + () () + () ()] - [() () + () () + () ()]|$$

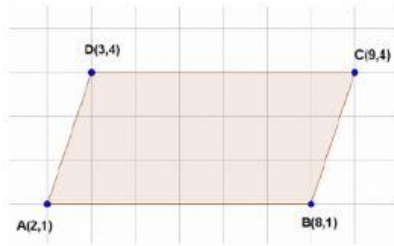
$$A = \frac{1}{2} |[() + () + ()] - [() + () + ()]|$$

$$A = \frac{1}{2} |[\quad] - [\quad]|$$

$$A = \frac{1}{2} | \quad |$$

$$A = \quad u^2$$

3. Determina el perímetro del polígono.



Segmento A(x_1 , y_1) B(x_2 , y_2)

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

$$d = \sqrt{(\quad - \quad)^2 + (\quad - \quad)^2}$$

$$d = \sqrt{(\quad)^2 + (\quad)^2}$$

$$d = \sqrt{(\quad) + (\quad)}$$

$$d = \sqrt{(\quad)}$$

$$d = \underline{\hspace{2cm}}$$

Segmento B(x_1 , y_1) C(x_2 , y_2)

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

$$d = \sqrt{(\quad - \quad)^2 + (\quad - \quad)^2}$$

$$d = \sqrt{(\quad)^2 + (\quad)^2}$$

$$d = \sqrt{(\quad) + (\quad)}$$

$$d = \sqrt{(\quad)}$$

$$d = \underline{\hspace{2cm}}$$

Segmento D(x_1 , y_1) A(x_2 , y_2)

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

$$d = \sqrt{(\quad - \quad)^2 + (\quad - \quad)^2}$$

$$d = \sqrt{(\quad)^2 + (\quad)^2}$$

$$d = \sqrt{(\quad) + (\quad)}$$

$$d = \sqrt{(\quad)}$$

$$d = \underline{\hspace{2cm}}$$

Segmento C(x_1 , y_1) D(x_2 , y_2)

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

$$d = \sqrt{(\quad - \quad)^2 + (\quad - \quad)^2}$$

$$d = \sqrt{(\quad)^2 + (\quad)^2}$$

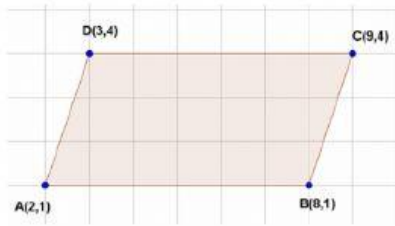
$$d = \sqrt{(\quad) + (\quad)}$$

$$d = \sqrt{(\quad)}$$

$$d = \underline{\hspace{2cm}}$$

Perímetro: $\underline{\hspace{2cm}}$ u

4. Determina el área del polígono.



$$A = \frac{1}{2} \begin{vmatrix} X_1 & Y_1 \\ X_2 & Y_2 \\ X_3 & Y_3 \\ X_4 & Y_4 \\ X_1 & Y_1 \end{vmatrix}$$

$$A = \frac{1}{2} \begin{vmatrix} \square & \square \\ \square & \square \\ \square & \square \\ \square & \square \\ \square & \square \end{vmatrix}$$

$$A = \frac{1}{2} |[() () + () () + () () + () ()] - [() () + () () + () () + () ()]|$$

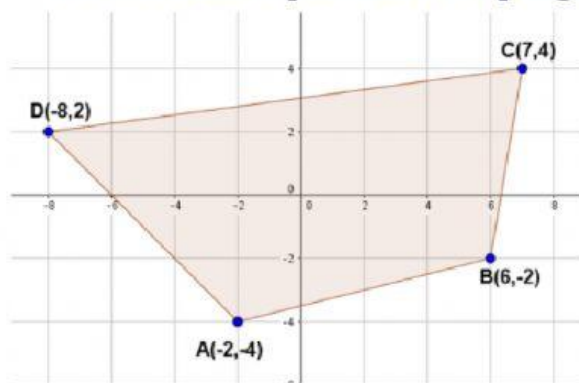
$$A = \frac{1}{2} |[() + () + () + ()] - [() + () + () + ()]|$$

$$A = \frac{1}{2} |[\quad] - [\quad]|$$

$$A = \frac{1}{2} | \quad |$$

$$A = \quad u^2$$

5. Determina el perímetro del polígono.



Perímetro: _____ u

Segmento A(x_1 , y_1) B(x_2 , y_2)

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

$$d = \sqrt{(\quad - \quad)^2 + (\quad - \quad)^2}$$

$$d = \sqrt{(\quad)^2 + (\quad)^2}$$

$$d = \sqrt{(\quad) + (\quad)}$$

$$d = \sqrt{(\quad)}$$

$$d = \underline{\hspace{2cm}}$$

Segmento B(x_1 , y_1) C(x_2 , y_2)

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

$$d = \sqrt{(\quad - \quad)^2 + (\quad - \quad)^2}$$

$$d = \sqrt{(\quad)^2 + (\quad)^2}$$

$$d = \sqrt{(\quad) + (\quad)}$$

$$d = \sqrt{(\quad)}$$

$$d = \underline{\hspace{2cm}}$$

Segmento C(x_1 , y_1) D(x_2 , y_2)

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

$$d = \sqrt{(\quad - \quad)^2 + (\quad - \quad)^2}$$

$$d = \sqrt{(\quad)^2 + (\quad)^2}$$

$$d = \sqrt{(\quad) + (\quad)}$$

$$d = \sqrt{(\quad)}$$

$$d = \underline{\hspace{2cm}}$$

Segmento D(x_1 , y_1) A(x_2 , y_2)

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

$$d = \sqrt{(\quad - \quad)^2 + (\quad - \quad)^2}$$

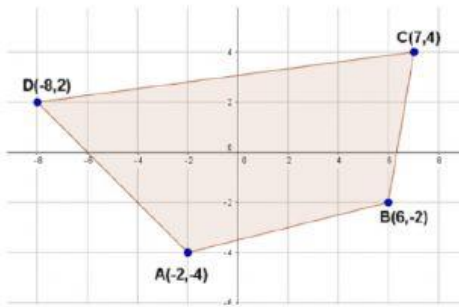
$$d = \sqrt{(\quad)^2 + (\quad)^2}$$

$$d = \sqrt{(\quad) + (\quad)}$$

$$d = \sqrt{(\quad)}$$

$$d = \underline{\hspace{2cm}}$$

6. Determina el área del polígono.



$$A = \frac{1}{2} \begin{vmatrix} X_1 & Y_1 \\ X_2 & Y_2 \\ X_3 & Y_3 \\ X_4 & Y_4 \\ X_1 & Y_1 \end{vmatrix}$$

$$A = \frac{1}{2} \begin{vmatrix} \square & \square \\ \square & \square \\ \square & \square \\ \square & \square \\ \square & \square \end{vmatrix}$$

$$A = \frac{1}{2} |[() () + () () + () () + () ()] - [() () + () () + () () + () ()]|$$

$$A = \frac{1}{2} |[() + () + () + ()] - [() + () + () + ()]|$$

$$A = \frac{1}{2} |[\quad] - [\quad]|$$

$$A = \frac{1}{2} | \quad |$$

$$A = \quad u^2$$