

# Razones Dadas

Formula

$$rx = \frac{x' + r x^2}{1 + r}$$

$$rx = \frac{3 + \frac{1}{3} (10)}{1 + \frac{1}{3}}$$

$$1 \text{ abc } 3 \times 2 = \frac{2}{3} = (1 + 1 \text{ abc } 3) = 1.33$$

P<sub>1</sub>P<sub>2</sub> →

$$rx = 1.33$$

$$1 \text{ abc } 3 \times 2 = 2\frac{1}{3} = (1 + 1 \text{ abc } 3) = 1.33$$

$$ry = 1.33$$

$$2 \text{ abc } 3 \times \frac{8 + \frac{1}{3} (2)}{1 + \frac{1}{3}} = 17$$

$$2 \text{ abc } 3 \times$$

$$rx = \frac{2 + \frac{1}{3} (-6)}{1 + \frac{1}{3}} =$$

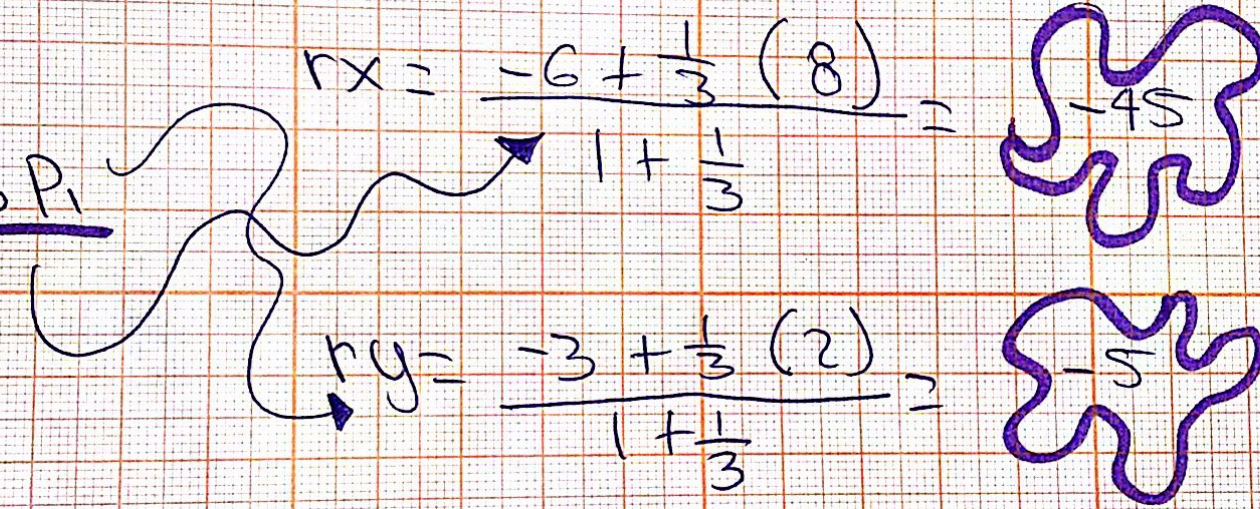
$$-13.66$$

P<sub>2</sub>P<sub>3</sub> →

$$ry = \frac{7 + \frac{1}{3} (-3)}{1 + \frac{1}{3}} =$$

$$6.33$$

$P_3 P_1$

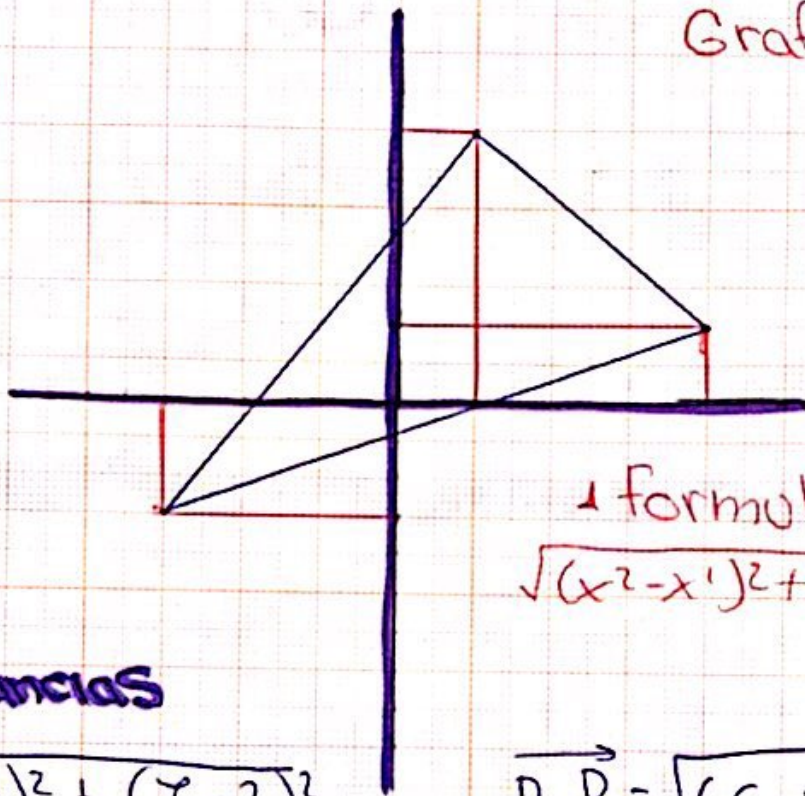
$$rx = \frac{-6 + \frac{1}{3}(8)}{1 + \frac{1}{3}} = -45$$
$$ry = \frac{-3 + \frac{1}{3}(2)}{1 + \frac{1}{3}} = -5$$


# Ejercicio Uno

$$P_1(8, 2)$$

$$P_2(2, 7)$$

$$P_3(-6, -3)$$



Grafica

Formula

$$\sqrt{(x^2 - x^1)^2 + (y^2 - y^1)^2}$$

## Distancias

$$\overrightarrow{P_1P_2} = \sqrt{(2-8)^2 + (7-2)^2}$$

$$\overrightarrow{P_1P_2} = \sqrt{(-6)^2 + (5)^2}$$

$$\overrightarrow{P_1P_2} = \sqrt{(36) + (25)}$$

$$\overrightarrow{P_1P_2} = \sqrt{61}$$

$$\overrightarrow{P_1P_2} = 7.81$$

$$\overrightarrow{P_2P_3} = \sqrt{(-6-2)^2 + (-3-7)^2}$$

$$\overrightarrow{P_2P_3} = \sqrt{(-8)^2 + (-10)^2}$$

$$\overrightarrow{P_2P_3} = \sqrt{(64) + (100)}$$

$$\overrightarrow{P_2P_3} = \sqrt{164}$$

$$\overrightarrow{P_2P_3} = 12.80$$

$$\overrightarrow{P_3P_1} = \sqrt{(8-(-6))^2 + (2-(-3))^2}$$

$$\overrightarrow{P_3P_1} = \sqrt{(14)^2 + (5)^2}$$

$$\overrightarrow{P_3P_1} = \sqrt{(196) + (25)}$$

$$\overrightarrow{P_3P_1} = \sqrt{221}$$

$$\overrightarrow{P_3P_1} = 14.86$$

# 35.47 Perimetro.

Pendientes  $\left( \frac{y_2 - y_1}{x_2 - x_1} \right) = \theta$  Formula.

$P_1P_2$   $m = \text{arctang } m = \text{arctangente}$

~~$m = \text{arctang } m = \text{arctangente}$~~

$$m = P_1P_2 = \text{arctang } m = \text{arctang} = \left( \frac{7-2}{2-8} \right) = \frac{5}{-6} = -\frac{5}{6}$$

$$\theta = P_1P_2 = \text{arctang } m = \left( \frac{5}{6} \right) = 39^\circ 48' 20.06''$$

$$m = P_2P_3 = \text{arctang } m = \text{arctang} \left( \frac{-3-7}{-6-2} \right) = \frac{-10}{-8} = \frac{10}{8}$$

$$\theta = P_2P_3 = \text{arctang} = \left( \frac{10}{8} \right) = 51^\circ 20' 24.69''$$

$$m = P_3P_1 = \text{arctang } m = \text{arctang} \left( \frac{2-(-3)}{8-(-6)} \right) = \frac{5}{14}$$

$$\theta = P_3P_1 = \text{arctang} = \left( \frac{5}{14} \right) = 19^\circ 39' 13.77''$$