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Nombre del profesor: Ing, Jorge Enrique Albores

Nombre del trabajo: Actividad 1

Materia: Geometria

Grado: 3ro

Grupo: Técnico en Administración Recursos Humanos

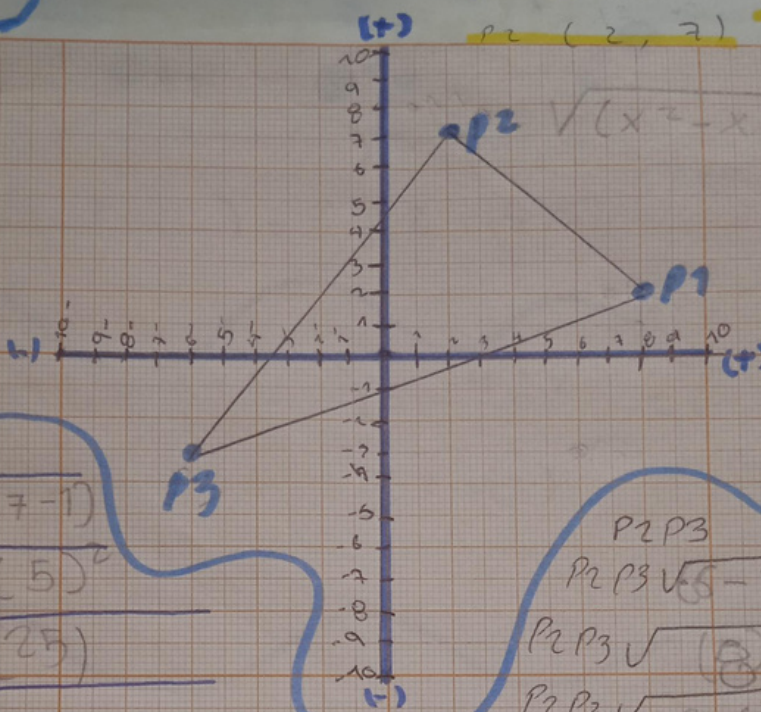
PASIÓN POR EDUCAR

Comitán de Domínguez Chiapas a 10 de julio de 2022.

Perimetro

7081
12080
14086
35047

$P_2 (8, 2)$ $P_3 (6, -3)$
 $P_1 (2, 7)$



$P_1 P_2$

$$P_1 P_2 \sqrt{(2-8)^2 + (7-2)^2}$$

$$P_1 P_2 \sqrt{(-6)^2 + (5)^2}$$

$$P_1 P_2 \sqrt{36 + 25}$$

$$P_1 P_2 \sqrt{61}$$

$P_1 P_2 = 7081$

$P_2 P_3$

$$P_2 P_3 \sqrt{(8-6)^2 + (2-(-3))^2}$$

$$P_2 P_3 \sqrt{(2)^2 + (5)^2}$$

$$P_2 P_3 \sqrt{4 + 25}$$

$P_2 P_3 = 14086$

$$P_3 P_1 \sqrt{(8-(-6))^2 + (2-(7))^2}$$

$$P_3 P_1 \sqrt{(14)^2 + (-5)^2}$$

$$P_3 P_1 \sqrt{196 + 25}$$

$$P_3 P_1 \sqrt{221}$$

$P_3 P_1 = 14086$

Pendientes o Angulo

$$P_1 P_2 = \frac{7-2}{2-8} = \frac{5}{-6}$$

$$\theta = \arctang = \arctang m = \frac{5}{6}$$

$$39^\circ 48' 20.06''$$

$$P_2 P_3 = \frac{-3-2}{6-8} = \frac{-5}{-2} = \frac{5}{2}$$

$$\theta = \arctang = \arctang m = \frac{10}{8}$$

$$51^\circ 28' 24.69''$$

$$P_3 P_1 = \frac{2-(-3)}{8-(-6)} = \frac{5}{14}$$

$$\theta = \arctang = \arctang m$$

$$19^\circ 39' 13.77''$$

Punto medio

$$P1P2 = (Pm x) = \left(\frac{-8 + 2}{2} \right) = \frac{-10}{2} = -5 \quad P1P2 = (5)(4,5)$$

$$Pm y = \left(\frac{2 + 7}{2} \right) = \frac{9}{2} = 4,5$$

$$P2P3 = (Pm x) = \left(\frac{2 + -6}{2} \right) = \frac{-4}{2} = -2$$

$$Pm y = \left(\frac{7 + -3}{2} \right) = \frac{4}{2} = 2 \quad P1P2 = (-2)(2)$$

$$P1P2 = (-2)(2)$$

$$P1P2 = (Pm x) = \left(\frac{-6 + 8}{2} \right) = \frac{2}{2} = 1$$

$$P1P2 = (1)(-0,5)$$

$$Pm y = \left(\frac{-3 + 2}{2} \right) = \frac{-1}{2} = -0,5$$

P1P2

$$Vx = \frac{8 + \frac{1}{3}}{1 + \frac{1}{3}} = \frac{8,2,3}{1 + \frac{1}{3}} = 6,5$$

$$Vy = \frac{2 + \frac{1}{3}}{1 + \frac{1}{3}} \times (7) = \frac{4,1,3}{1 + \frac{1}{3}} = 3,25$$

P2P3

$$Vx = \frac{2 \times \frac{1}{3} \times (-6)}{1 + \frac{1}{3}} = \frac{-4}{1 + \frac{1}{3}} = 0$$

$$Vy = \frac{7 + \frac{1}{3} \times (-3)}{1 + \frac{1}{3}} = \frac{6}{1 + \frac{1}{3}} = 4,5$$

$$P3P1 \quad Vx = \frac{-6 + \frac{1}{3} \times (0)}{1 + \frac{1}{3}} =$$

$$\frac{3 + \frac{1}{3}}{1 + \frac{1}{3}} = -2$$

$$Vy = \frac{-3 + \frac{1}{3} \times (2)}{1 + \frac{1}{3}} =$$

$$\frac{2,2,3}{1 + \frac{1}{3}} = 2$$

Ejercicio 2

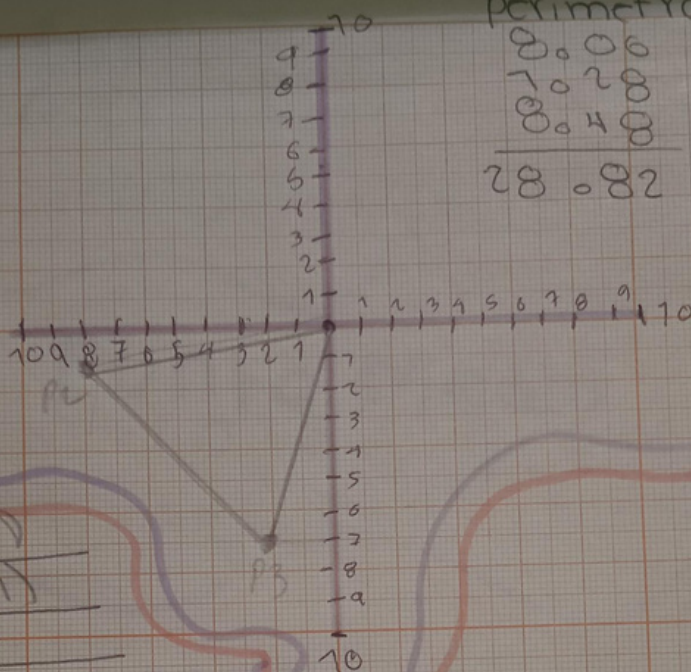
$P_1(0,0)$

$P_2(-8,-1)$

$P_3(-2,-7)$

Perimetro

$$\begin{array}{r} 8.06 \\ 7.28 \\ 8.48 \\ \hline 23.82 \end{array}$$



$P_1 P_2$

$$P_1 P_2 \sqrt{(-8-0)^2 + (-1-0)^2}$$

$$P_1 P_2 \sqrt{64 + 1}$$

$$P_1 P_2 \sqrt{65}$$

$$P_1 P_2 = 8.06$$

$$P_2 P_3 \sqrt{(-2-(-8))^2 + (-7-(-1))^2}$$

$$P_2 P_3 \sqrt{(6)^2 + (-6)^2}$$

$$P_2 P_3 \sqrt{36 + 36}$$

$$P_2 P_3 \sqrt{72}$$

$$P_2 P_3 = 8.48$$

$$P_1 P_2 = \frac{8-0}{1-0} = 8$$

$$\theta = \arctan 8 = 77^\circ 30.06$$

$$P_2 P_3 = \frac{-7-(-1)}{-2-(-8)} = \frac{-6}{6} = -1$$

$$\theta = \arctan -1 = 53^\circ 7' 48.57$$

$$P_3 P_1 \sqrt{(0-(-2))^2 + (0-(-7))^2}$$

$$P_3 P_1 \sqrt{4 + 49}$$

$$P_3 P_1 \sqrt{53}$$

$$P_3 P_1 = 7.28$$

Pendientes y angulos

$$P_1 P_2 = \frac{8-0}{1-0} = 8$$

Ejercicio 2

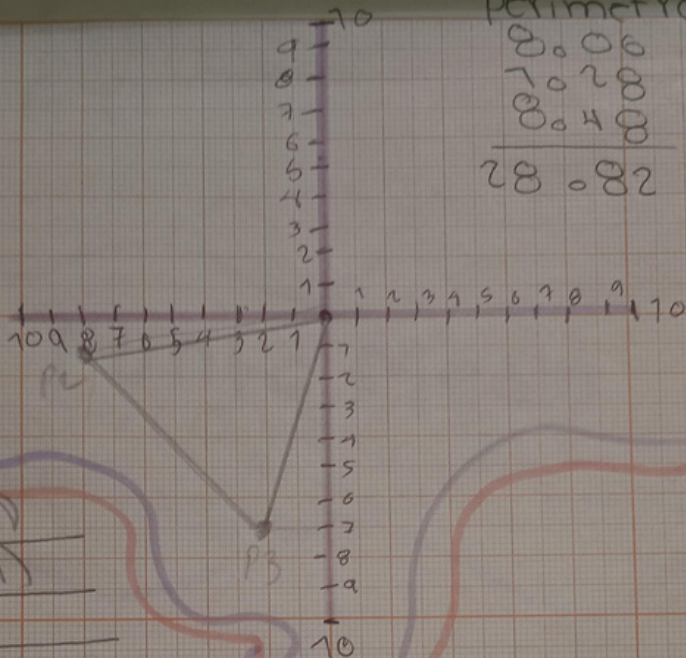
$P_1(0,0)$

$P_2(-8,-1)$

$P_3(-2,-7)$

Perimetro

$$\begin{array}{r} 8.06 \\ 7.28 \\ 8.48 \\ \hline 23.82 \end{array}$$



$P_1 P_2$

$$P_1 P_2 = \sqrt{(-8-0)^2 + (-1-0)^2}$$

$$P_1 P_2 = \sqrt{64 + 1}$$

$$P_1 P_2 = \sqrt{65}$$

$P_1 P_2 = 8.06$

$$P_3 P_1 = \sqrt{(0-(-2))^2 + (0-(-7))^2}$$

$$P_3 P_1 = \sqrt{4 + 49}$$

$$P_3 P_1 = \sqrt{53}$$

$P_3 P_1 = 7.28$

$$P_2 P_3 = \sqrt{(-2-(-8))^2 + (-7-(-1))^2}$$

$$P_2 P_3 = \sqrt{(6)^2 + (-6)^2}$$

$$P_2 P_3 = \sqrt{36 + 36}$$

$$P_2 P_3 = \sqrt{72}$$

$P_2 P_3 = 8.48$

Pendientes + angulos

$$P_1 P_2 = \frac{8-0}{-1-0} = -8$$

$\theta = \arctan = \arctan m = 7^\circ 30.06$

$$P_2 P_3 = \frac{-7-(-1)}{-2-(-8)} = \frac{-6}{6} = -1$$

$\theta = \arctan = \arctan m = \frac{8}{6} = 53^\circ 7' 48.57''$