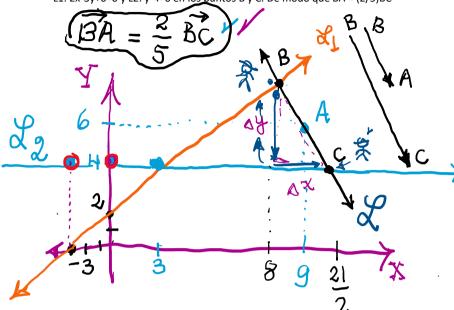
CLASE DE MATEMÁTICA II

jueves, 10 de octubre de 2024

PROFESOR: MARCOS ZAMBRANO FERNÁNDEZ

EJERCICIO: Encontrar la ecuación de la recta que pasa por A=(9,6) y corta a las rectas L1: 2x-3y+6=0 y L2: y-4=0 en los <u>p</u>untos B y C. De modo que BA = (2/5)BC



$$A - B = \frac{3}{5}(C - B) \sim$$

$$(9-p, 4-\frac{2}{3}p) = \frac{2}{5}(9-p, 2-\frac{2}{3}p)$$

$$9-p = \frac{2}{5}(q-p)$$
 $4 = \frac{8+\frac{3}{2}}{4}$ $q = \frac{21}{2}$

$$4 - \frac{3}{3}p = \frac{2}{5}(2 - \frac{2}{3}p) \Rightarrow p = B$$

$$\frac{16}{5} = (\frac{2}{3} - \frac{4}{15})p$$

$$\frac{1}{48} = 6p$$

$$\vec{a} \parallel \vec{b} = \vec{B} \vec{c}$$

$$\mathcal{L}: P_0 + t \vec{a}$$
 $(9,6) + t (1,-\frac{4}{3}), t \in \mathbb{R}$

$$0.2 + 6 = 0$$

(0,4)

$$2p - 3y + 6 \Rightarrow y = \frac{2p + 6}{3}$$

$$B = (p, 3p+2)$$

$$C = (9, 4)$$

$$B = (8, \frac{22}{3}), C = (\frac{21}{2}, 4)$$

$$\mathcal{M} = \Delta y = \frac{32 - 4}{31 - 8} = \frac{10/3}{5/2} = \frac{20}{15} = \frac{4}{3}$$

$$y-y_0=m(x-x_0),$$

$$A = (x_0, y_0) = (g_1 6)$$

$$2: y-6=(-\frac{4}{3})(x-9)$$

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