

Unit #4

Introduction to Analytic Geometry

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Example #3: Page # 103

Find the coordinates of the point that divides the join of $A(-6, 3)$ and $B(5, -2)$ in the ratio $2:3$.

(i) internally

(ii) externally

Sol

We use formula (for internally)

$$x = \frac{K_1 x_2 + K_2 x_1}{K_1 + K_2}, \quad y = \frac{K_1 y_2 + K_2 y_1}{K_1 + K_2}$$

$$A(-6, 3), \quad B(5, -2) \quad K_1 : K_2 = 2 : 3$$

$$x_1 = -6, \quad y_1 = 3, \quad x_2 = 5, \quad y_2 = -2, \quad k_1 = 2, \quad k_2 = 3$$

Let Required coordinate of point "P"

$$P(x, y) = \left(\frac{K_1 x_2 + K_2 x_1}{K_1 + K_2}, \frac{K_1 y_2 + K_2 y_1}{K_1 + K_2} \right)$$

$$x = ?$$

$$y = ?$$

$$x = \frac{K_1 x_2 + K_2 x_1}{K_1 + K_2}$$

$$x = \frac{(2)(5) + (3)(-6)}{2 + 3}$$

$$x = \frac{10 - 18}{5}$$

$$x = -\frac{8}{5}$$

$$y = \frac{K_1 y_2 + K_2 y_1}{K_1 + K_2}$$

$$y = \frac{(2)(-2) + (3)(3)}{2 + 3}$$

$$y = \frac{-4 + 9}{5}$$

$$y = \frac{5}{5}$$

$$y = 1$$

(ii) externally

We use formula

$$x = \frac{K_1 x_2 - K_2 x_1}{K_1 - K_2}, \quad y = \frac{K_1 y_2 - K_2 y_1}{K_1 - K_2}$$

$$x = \frac{(2)(5) - (3)(-6)}{2 - 3}, \quad y = \frac{(2)(-2) - (3)(3)}{2 - 3}$$

$$x = \frac{10 + 18}{-1}, \quad y = \frac{-4 - 9}{-1}$$

$$x = -\frac{28}{1}, \quad y = -\frac{13}{1}$$

$$x = -28, \quad y = 13$$

Ex #4.1

Q#1:- Describe the location in the plane of the point $P(x, y)$ for which

vii (i) $|x| = -|y|$

vii (ii) $|x| \geq 3$

ix (iii) $x > 2$ and $y = 2$

Sol $|x| = -|y|$

A positive value cannot equal to a negative value, except number zero, so location of point in the plane is at **origin**.

$$|x| \geq 3$$

$$\Rightarrow \pm x \geq 3$$

$$\Rightarrow +x \geq 3 \quad \text{or} \quad -x \geq 3$$

$$\Rightarrow x \geq 3 \quad \text{or} \quad x \leq -3$$

which is the set of points lying on right side of the line $x=3$ and the points lying on left side of the line $x=-3$

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