

MATRIC: 19/ENG05/020

DEPT. MECHATRONICS ENGINEERING

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$$A(5, 3) \quad \text{and} \quad B(15, -3)$$

$$\text{ratio} = \frac{3}{-3} = -1$$

~~is~~ ~~not~~ ~~parallel~~

$$A(x_1, y_1) = (5, 3)$$

$$B(x_2, y_2) = (15, -7)$$

$$m = \frac{3}{5} \quad n = \frac{-7}{15}$$

$$P = (x, y)$$

$$\frac{3x - 15y}{m - n} = \frac{(3 \times 15) - (1 \times 5)}{3 - 1}$$

$$\frac{3x - 15y}{m - n} = \frac{(3 \times 15) - (1 \times 5)}{3 - 1}$$