

IYAMU UCHENNA PRECIOUS

MECHANICAL ENGINEERING

SN 28

MAT102

19/ENG06/031

MATRIS NO = 19/ENG06/031
NAMA IYAMU UCHENNA PRECIOUS
DEPT : MECHANICAL ENGINEERING SN = 28
MATERI NO : 19/ENG06/031

Assignment

1) $A(6, -5) B(-2, 1) C(0, 3)$

$$\vec{AB} = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$
$$\vec{AB} = \sqrt{(6 - (-2))^2 + (-5 - 1)^2}$$
$$\vec{AB} = \sqrt{8^2 + (-6)^2}$$
$$\vec{AB} = \sqrt{100} = 10$$
$$\vec{BC} = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$
$$\vec{BC} = \sqrt{(-2 - 0)^2 + (1 - 3)^2}$$
$$\vec{BC} = \sqrt{4 + 4}$$
$$\vec{BC} = \sqrt{8} = 2.828$$

$\vec{AB} = \vec{AC}$ THEOREM $\triangle ABC$ DARI SUDUT SAMA
 $P(5, -3) Q(-4, 9) R(14, -15)$

Pada α internaly
 $(x_1, y_1) = (-4, 9)$ $(x_2, y_2) = (14, -15)$ $(x_3, y_3) = (5, -3)$

$$2 = \frac{1 - 1}{1 - K}$$

$$5 = \frac{-1L + 14K}{1 - K}$$

$$K(1 - K) = 1L + 14K$$

$$5L + 5K = 4L + 14K$$

$$9L = 9K$$

$$L = K$$

1.1

R divide P_Q exactly

$$y = \frac{1 - K}{1 - K}$$

$$-15 = \frac{3L - 9K}{1 - K}$$

$$-15(1 - K) = 3L - 9K$$

$$5(L - K) = 4 + 3K$$

$$4L = 8K$$

$$1/2 L = 2K$$