

$P_1 (4, 4)$
 $P_2 (1, 8)$
 $P_3 (-3, 2)$



$P_1 P_2$

$$P_1 P_2 = \sqrt{(1-4)^2 + (8-4)^2}$$

$$P_1 P_2 = \sqrt{(-3)^2 + (4)^2}$$

$$P_1 P_2 = \sqrt{9 + 16}$$

$$P_1 P_2 = \sqrt{25}$$

$P_1 P_2 = 5$

$P_2 P_3$

$$P_2 P_3 = \sqrt{(-3-1)^2 + (2-8)^2}$$

$$P_2 P_3 = \sqrt{(-4)^2 + (-6)^2}$$

$$P_2 P_3 = \sqrt{16 + 36}$$

$$P_2 P_3 = \sqrt{52}$$

$P_2 P_3 = 7.21$

$P_3 P_1$

$$P_3 P_1 = \sqrt{(4-(-3))^2 + (4-2)^2}$$

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

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

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

$P_3 P_1 = 7.28$

P1 P2

P1 (4, 4)
P2 (1, 8)

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{8 - 4}{1 - 4} = \frac{4}{-3} = -\frac{4}{3}$$

arccant m = arccant 53° 7' 48.37"

P2 P3

P2 (4, 8)
P3 (-3, 2)

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{2 - 8}{-3 - 4} = \frac{-6}{-7} = \frac{6}{7}$$

arccant m = arccant 51° 39.94"

P3 P1

P3 (-3, 2)
P1 (4, 4)

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{4 - 2}{4 - (-3)} = \frac{2}{7}$$

arccant m = arccant 19° 56' 43.43"