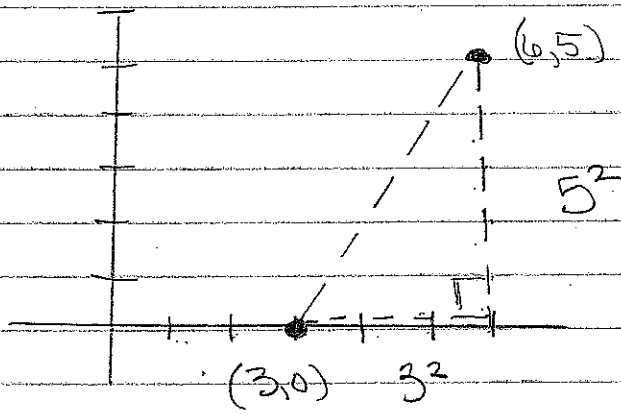
5.7 Distance Formula btwn 2 points

Method 1 PYTHAGOREAN THEORE

Find distance btwn (3,0) & (6,5)



$5^2 + 3^2 = c^2$

$25 + 9 = c^2$

$\sqrt{34} = c$

$5.83 = c$ ANSWER

Method 2 DISTANCE FORMULA

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

d → is the c^2

$(3,0)$ & $(6,5)$
$x_1\ y_1$ $x_2\ y_2$

$$d = \sqrt{(6-3)^2 + (5-0)^2}$$

$$3^2 + 5^2$$

$$9 + 25$$

$$\sqrt{34}$$

5.83 ANSWER