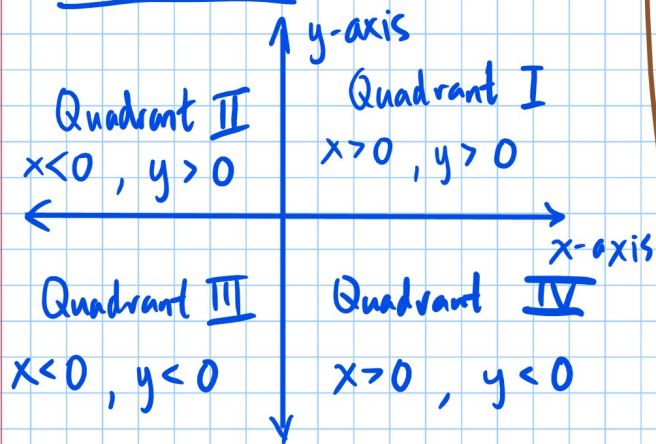


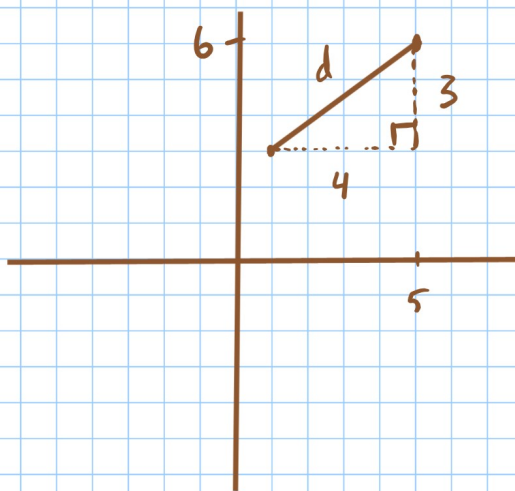
Good Morning:

Please get an iPad after you find a seat

Section 1.1



ex: Find the distance between (1,3) and (5,6)



$$3^2 + 4^2 = d^2$$

$$9 + 16 = d^2$$

$$25 = d^2$$

$$d = 5$$

Distance Formula

The distance between  $(x_1, y_1)$  and  $(x_2, y_2)$  is

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

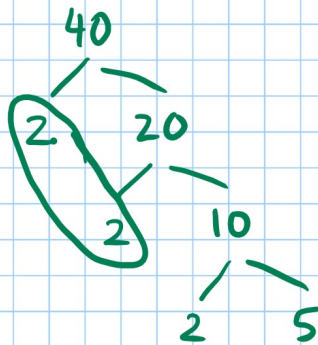
ex: distance between  $(-4, 5)$  and  $(-6, 11)$

$$d = \sqrt{(-6 - (-4))^2 + (11 - 5)^2}$$

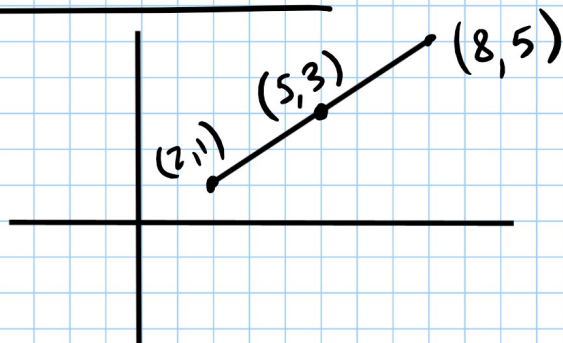
$$d = \sqrt{(-2)^2 + 6^2}$$

$$d = \sqrt{4 + 36}$$

$$d = \sqrt{40} = 2\sqrt{10}$$



### Midpoint Formula



$$\left( \frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$$

Do this in a separate place in notebook

p9-11 9-27 odd, 49, 51, 65, 69