Notes on Distance Formula

The Distance Formula allows you to find the <u>distance</u> between two points. The subscripts (x_1, y_1) only indicate that there is a first and second point. However, whichever point is first or second is up to you.

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

1. Find the distance between $(1, -2)$ and $(-3, 6)$. 2. Find the distant

- 2. Find the distance between (-2, -3) & (-4, 4).

- 3. Use the distance formula to find the value of x if the distance between (1, 2) and (x, 5) is 5 units.
- 4. Use the distance formula to find the value of y if the distance between (-1, 4) & (5, y) is 10 units.