

How to find the midpoint of 2 points

To find the **Midpoint of 2 numbers**, you have to use the Midpoint Formula. The midpoint of 2 numbers is the x,y coordinates that is the exact middle of the other 2 coordinates.

Ex. 1: Find the midpoint of $(3,5)$ and $(-3,-6)$.

The Midpoint Formula is:

$$\text{Midpoint of } x \text{ is } = \frac{x_1+x_2}{2}$$

$$\text{Midpoint of } y = \frac{y_1+y_2}{2}$$

So the midpoint of the coordinates is:

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

Plug in the points:

$$\text{Midpoint} = \left(\frac{3+(-3)}{2}, \frac{5+(-6)}{2} \right)$$

$$\text{Midpoint} = \left(0, -\frac{1}{2} \right)$$

