
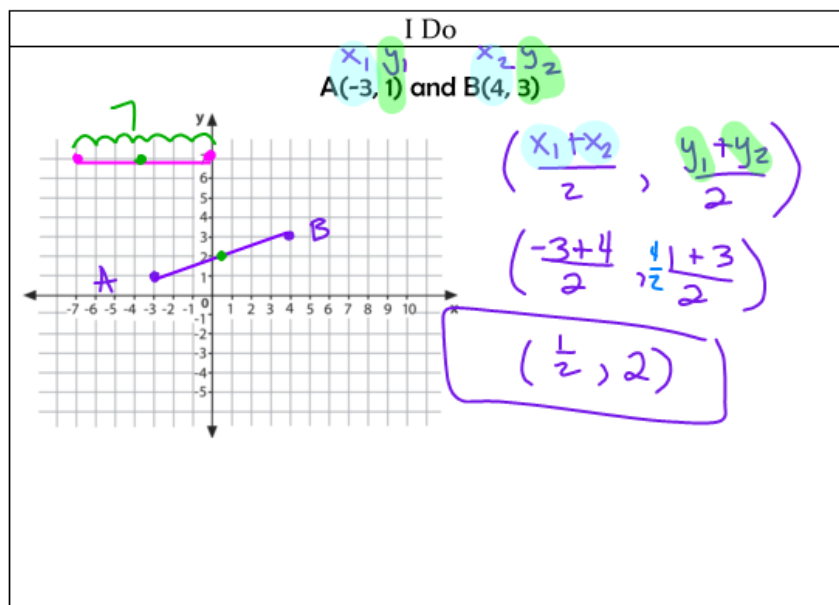


Lesson 5-4

<i>midpoint</i>	Decode
Definition halfway between two points $\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$	Example 

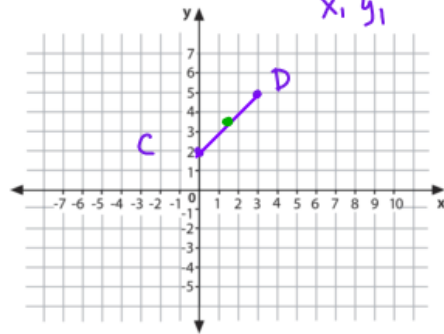
Example 3: Finding the Coordinates of a Midpoint

Find the coordinates of the midpoint of each line segment. Graph the line and label the midpoint as well.



We Do

C(0, 2) and D(3, 5)

 x_1 y_1 x_2 y_2 

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

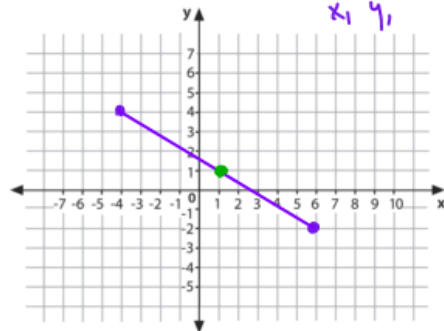
$$\left(\frac{0 + 3}{2}, \frac{2 + 5}{2} \right)$$

$$\left(\frac{3}{2}, \frac{7}{2} \right)$$

$$\left(1\frac{1}{2}, 3\frac{1}{2} \right)$$

You Do

E(-4, 4) and F(6, -2)

 x_1 y_1 x_2 y_2 

$$\left(\frac{-4 + 6}{2}, \frac{4 + (-2)}{2} \right)$$

$$\left(\frac{2}{2}, \frac{2}{2} \right)$$

$$(1, 1)$$