

Using Your Algebra Skills 1: Distance & Midpoint

Coordinate Midpoint Property:

If (x_1, y_1) and (x_2, y_2) are the coordinates of the _____ of a segment, then the coordinates of the midpoint are

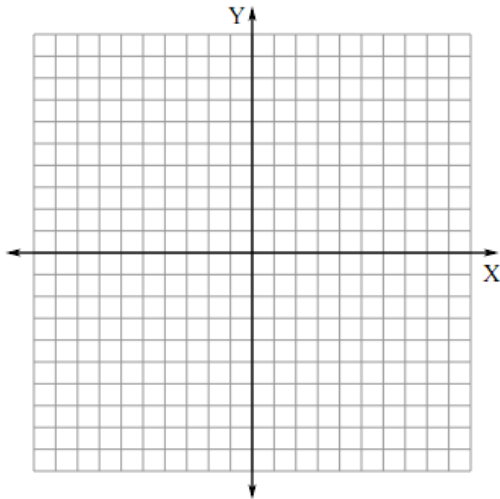
$$\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$$

• Example 1: Segment AB has endpoints $(-8, 5)$ and $(3, -6)$. Find the coordinates of the midpoint of \overline{AB} .

• Example 2: Find the distance between the two points using the distance formula.

Distance formula:

Pythagorean Method:



⇒ **ASSIGNMENT:** _____