

Stack + Subtract

Find the distance between these pairs of points.

$$\begin{array}{r} (6, -4) \\ (2, -1) \\ \hline 4 \quad 3 \rightarrow \end{array}$$

$$4^2 + 3^2 = c^2 \\ \sqrt{25} = \sqrt{c^2} \quad \boxed{5}$$

- (6, 4) and (2, 1)
- (-2, -4) and (3, 8)
- (0, 0) and (5, 10)
- (-5, 2) and (7, -7)
- (0, -8) and (8, 7)
- (-2, 11) and (4, 3)
- (2, 1) and (4, 0)
- (6, 4) and (6, -2)

M $(\frac{x}{2}, \frac{y}{2})$

Find the midpoint of the segments with these endpoints.

$$\begin{array}{r} (1, 8) \text{ and } (3, 10) \\ (\frac{1+3}{2}, \frac{8+10}{2}) \quad (2, 9) \end{array}$$

- (1, 8) and (3, 10)
- (2, 2) and (2, 4)
- (2, 3) and (-1, -5)
- (9, 8) and (-3, 4)
- (5, -1) and M(-3, 7)
- ($\frac{1}{2}$, 1) and ($4\frac{1}{2}$, -7)
- (6, -1.2) and (-6, 1.2)
- (4, 4) and M(3, 5)

Given the midpoint and one endpoint of a segment, find the other endpoint.

- $E_1(5, -1)$ and M(-3, 7)
- $E_1(4, 4)$ and M(3, 5)

$$\left(\frac{x+x}{2}, \frac{y+y}{2} \right)$$