Distance Formula

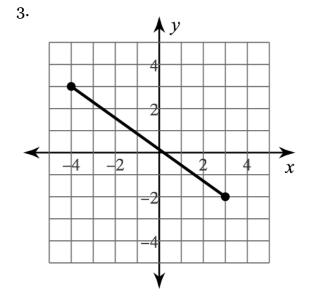
$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

Midpoint Formula

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

Find the distance between each pair of points.

2. (-11, -12) & (-4, 12)



Find the midpoint of the line segment with the given endpoints.

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

6. Endpoint: (9, 7), midpoint: (-3, -2)

7. Endpoint: (-6, 4), midpoint: (-5, 1)

Distance Formula

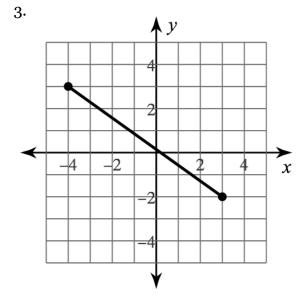
$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

Midpoint Formula

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

Find the distance between each pair of points.

$$\sqrt{125}$$



$$\sqrt{84}$$

Find the midpoint of the line segment with the given endpoints.

$$(4, -1)$$

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

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

6. Endpoint: (9, 7), midpoint: (-3, -2)

$$(-15, -11)$$

7. Endpoint: (-6, 4), midpoint: (-5, 1)

$$(-4, -2)$$