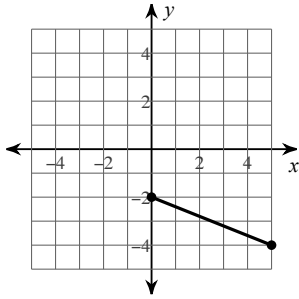


## Distance &amp; Midpoint Formulas - Practice

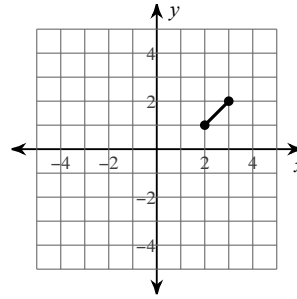
Find the distance between each pair of points.

1)



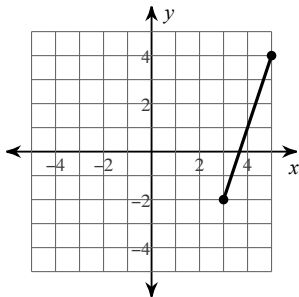
$$\sqrt{29}$$

2)



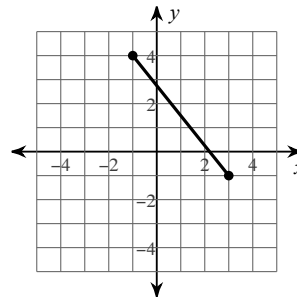
$$\sqrt{2}$$

3)



$$2\sqrt{10}$$

4)



$$\sqrt{41}$$

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

5)  $(6, 0), (9, -3)$

$$\left(7\frac{1}{2}, -1\frac{1}{2}\right)$$

6)  $(-1, -5), (5, 5)$

$$(2, 0)$$

7)  $(-5, -2), (-9, 7)$

$$\left(-7, 2\frac{1}{2}\right)$$

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

8) Endpoint:  $(0, -6)$ , midpoint:  $(-6, -6)$

$$(-12, -6)$$

9) Endpoint:  $(5, -10)$ , midpoint:  $(6, 0)$

$$(7, 10)$$

10) Endpoint:  $(1, -8)$ , midpoint:  $(6, 0)$

$$(11, 8)$$