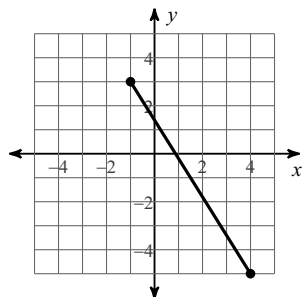


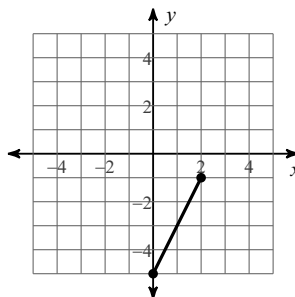
### 1.2B Midpoint in the Coordinate Plane

**Find the midpoint of each line segment using ANY method.**

1)



2)



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

3)  $(-6, 38), (12, -48)$

4)  $(-14, -18), (73, 54)$

5)  $(29, 20), (-19, 12)$

6)  $(28, -3), (66, 57)$

7)  $(3.4, 4.5), (-0.7, -5.9)$

8)  $\left(1\frac{2}{3}, -\frac{6}{5}\right), \left(-3, -3\frac{1}{5}\right)$

**Use the midpoint formula to find the other endpoint of the line segment with the given endpoint and midpoint.**

9) Endpoint:  $(4, -8)$ , midpoint:  $(4, 7)$

10) Endpoint:  $(8, 6)$ , midpoint:  $(3, -10)$

11) Endpoint:  $(-10, -8)$ , midpoint:  $(0, 7)$

12) Endpoint:  $(-7, 7)$ , midpoint:  $(0, 7)$

## Answers to 1.2B Midpoint in the Coordinate Plane (ID: 1)

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

5)  $(5, 16)$

9)  $(4, 22)$

2)  $(1, -3)$

6)  $(47, 27)$

10)  $(-2, -26)$

3)  $(3, -5)$

7)  $(1.35, -0.7)$

11)  $(10, 22)$

4)  $\left(29\frac{1}{2}, 18\right)$

8)  $\left(-\frac{2}{3}, -2\frac{1}{5}\right)$

12)  $(7, 7)$