

# Geometry - Homework 10

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

1)  $(-2, -9), (-5, -1)$

2)  $(-10, -2), (-7, 7)$

3)  $(1, 6), (-2, -5)$

4)  $(-10, -4), (-4, 9)$

5)  $(-7, 7), (-7, 8)$

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

7)  $(1, 9), (-1, 4)$

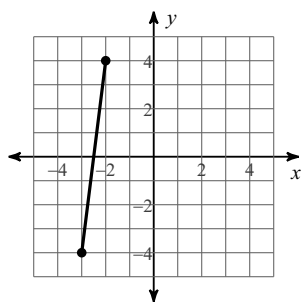
8)  $(3, -4), (-6, -10)$

9)  $(-7, 6), (5, 3)$

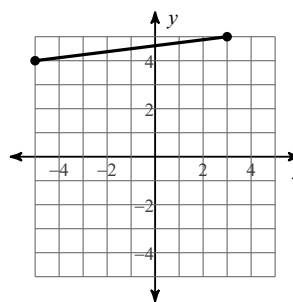
10)  $(-9, 10), (0, -3)$

**Find the midpoint of each line segment.**

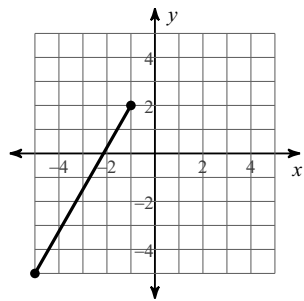
11)



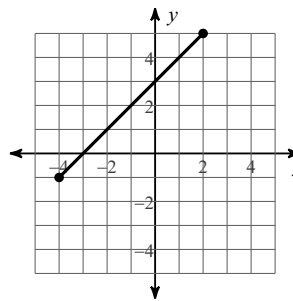
12)



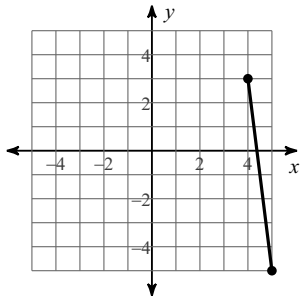
13)



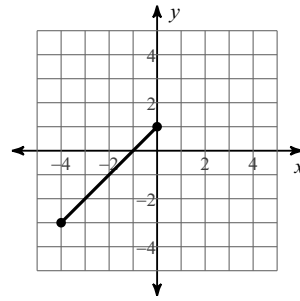
14)



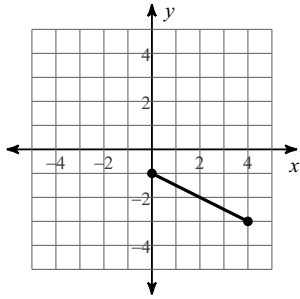
15)



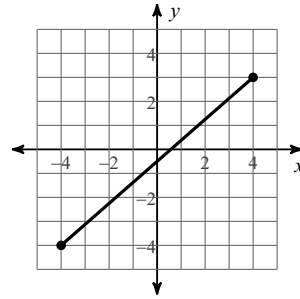
16)



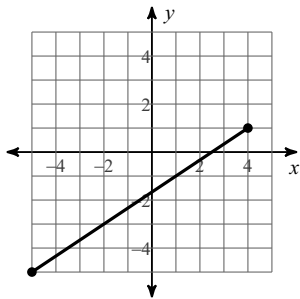
17)



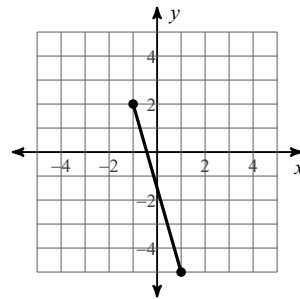
18)



19)



20)



**Find the other endpoint of the line segment with the given endpoint and midpoint.**

21) Endpoint:  $(-7, 6)$ , midpoint:  $(-2, -4)$ 22) Endpoint:  $(-7, -6)$ , midpoint:  $(-8, 8)$ 23) Endpoint:  $(-1, 5)$ , midpoint:  $(-7, -5)$ 24) Endpoint:  $(2, 4)$ , midpoint:  $(-10, -10)$ 25) Endpoint:  $(6, 3)$ , midpoint:  $(7, 10)$ 26) Endpoint:  $(4, 4)$ , midpoint:  $(-6, 7)$ 27) Endpoint:  $(8, -8)$ , midpoint:  $(-9, -3)$ 28) Endpoint:  $(-9, -10)$ , midpoint:  $(10, 8)$ 29) Endpoint:  $(5, -4)$ , midpoint:  $(-7, -1)$ 30) Endpoint:  $(-1, -10)$ , midpoint:  $(0, 5)$

## Answers to Geometry - Homework 10

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

9)  $\left(-1, 4\frac{1}{2}\right)$

17)  $(2, -2)$

25)  $(8, 17)$

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

11)  $\left(-2\frac{1}{2}, 0\right)$

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

27)  $(-26, 2)$

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

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

21)  $(3, -14)$

29)  $(-19, 2)$

7)  $\left(0, 6\frac{1}{2}\right)$

15)  $\left(4\frac{1}{2}, -1\right)$

23)  $(-13, -15)$