

## Assignment

Date \_\_\_\_\_ Period \_\_\_\_\_

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

1) Endpoint:  $(5, 7)$ , midpoint:  $(-7, 1)$

2) Endpoint:  $(-6, -1)$ , midpoint:  $(-5, 0)$

3) Endpoint:  $(-2, 8)$ , midpoint:  $(8, -6)$

4) Endpoint:  $(-5, 3)$ , midpoint:  $(-6, -5)$

5) Endpoint:  $(2, -1)$ , midpoint:  $(3, 5)$

6) Endpoint:  $(-8, -5)$ , midpoint:  $(-4, -2)$

7) Endpoint:  $(2, -5)$ , midpoint:  $(-4, 2)$

8) Endpoint:  $(-1, 4)$ , midpoint:  $(-2, 5)$

9) Endpoint:  $(-2, -5)$ , midpoint:  $(1, 8)$

10) Endpoint:  $(3, -5)$ , midpoint:  $(-7, -1)$

11) Endpoint:  $(8, -5)$ , midpoint:  $(-2, 1)$

12) Endpoint:  $(-4, -1)$ , midpoint:  $(1, 6)$

13) Endpoint:  $(-8, 8)$ , midpoint:  $(5, -5)$

14) Endpoint:  $(6, -1)$ , midpoint:  $(-2, -2)$

15) Endpoint:  $(5, 3)$ , midpoint:  $(8, -4)$

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

16)  $(7, -1)$ ,  $(8, 6)$

17)  $(1, -1)$ ,  $(-2, 8)$

18)  $(3, 7)$ ,  $(-4, 5)$

19)  $(-6, 3)$ ,  $(5, -2)$

20)  $(0, 3)$ ,  $(8, -4)$

21)  $(4, 3)$ ,  $(3, 7)$

22)  $(7, -5), (-7, 4)$

23)  $(-3, 8), (-7, -3)$

**Find the distance between each pair of points.**

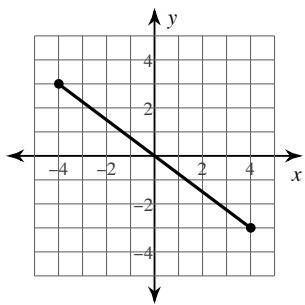
24)  $(-4, -5), (-5, 3)$

25)  $(3, 3), (-2, -7)$

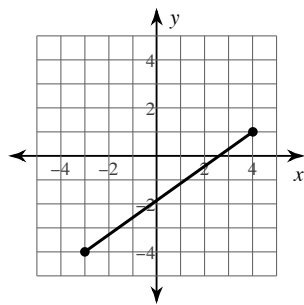
26)  $(-7, 7), (-2, 3)$

27)  $(-1, -1), (0, -6)$

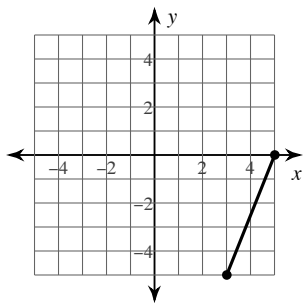
28)



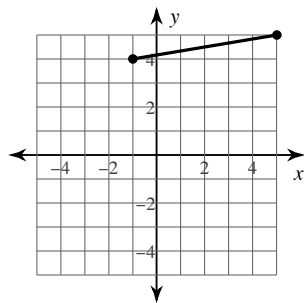
29)



30)



31)



## Answers to Assignment (ID: 1)

1)  $(-19, -5)$

5)  $(4, 11)$

9)  $(4, 21)$

13)  $(18, -18)$

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

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

25)  $5\sqrt{5}$

29)  $\sqrt{74}$

2)  $(-4, 1)$

6)  $(0, 1)$

10)  $(-17, 3)$

14)  $(-10, -3)$

18)  $\left(-\frac{1}{2}, 6\right)$

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

26)  $\sqrt{41}$

30)  $\sqrt{29}$

3)  $(18, -20)$

7)  $(-10, 9)$

11)  $(-12, 7)$

15)  $(11, -11)$

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

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

27)  $\sqrt{26}$

31)  $\sqrt{37}$

4)  $(-7, -13)$

8)  $(-3, 6)$

12)  $(6, 13)$

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

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

24)  $\sqrt{65}$

28) 10