

## Midpoint/Distance Review Ch. 3 SG

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

1)  $(8, 6)$ ,  $(4, 10)$

2)  $(1, -2)$ ,  $(-8, -9)$

3)  $(8, 4)$ ,  $(-10, 7)$

4)  $(-1, 3)$ ,  $(4, -1)$

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

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

6) Endpoint:  $(-2, -6)$ , midpoint:  $(-1, 7)$

7) Endpoint:  $(0, 2)$ , midpoint:  $(7, 1)$

8) Endpoint:  $(4, 4)$ , midpoint:  $(9, 1)$

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

10) Endpoint:  $(4, -3)$ , midpoint:  $(-5, -2)$

**Find the distance between each pair of points. Round your answer to the nearest tenth, if necessary.**

11)  $(8, 5)$ ,  $(2, -4)$

12)  $(-6, 1)$ ,  $(-7, 2)$

13)  $(4, 1)$ ,  $(7, -4)$

14)  $(-4, 0)$ ,  $(8, -6)$

15)  $(4, -6)$ ,  $(8, 3)$

## Answers to Midpoint/Distance Review Ch. 3 SG (ID: 1)

1)  $(6, 8)$

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

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

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

5)  $\left(4, -3\frac{1}{2}\right)$

6)  $(0, 20)$

7)  $(14, 0)$

8)  $(14, -2)$

9)  $(20, 6)$

10)  $(-14, -1)$

11) 10.8

12) 1.4

13) 5.8

14) 13.4

15) 9.8