

HW-4:

Name -----

Class----- Date-----

### Midpoint and Distance in the Coordinate Plane

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

1. 3 and 5

2. -7 and 4

3. 5 and -9

**Find the coordinates of the midpoint of  $\overline{AB}$ .**

4.  $A(6, 7), B(4, 3)$

5.  $A(1, 5), B(2, 3)$

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6.  $A(0, 0), B(5, 12)$

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**The coordinates of point  $Y$  are given. The midpoint of  $XY$  is  $(3, 5)$ . Find the coordinates of point  $X$ .**

7.  $Y(0, 2)$

8.  $Y(10, 5)$

9.  $Y(7, 1)$

**Find the distance between each pair of points. If necessary, round to the nearest tenth.**

10.  $A(6, 7), B(1, 7)$

11.  $C(5, 5), D(5, 3)$

**The room shown below right is 14 ft by 10 ft. Find the dimensions of each piece of furniture to the nearest tenth.**

12. length and width of the dresser

13. length and width of the table

14. length and width of the bed

