

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

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

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

