**Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Midpoint Formula and Missing Endpoint**

**Find the midpoint of each segment with the given endpoints. Circle your final answer.**

1. (2,5) (0,7) 3. (-3,14) (1,10)

2. (4,1) (-4,-1) 4. (0,6) (-5,-8)

5. PQ is a diameter of a circle. The coordinates of P are (-1,8) and the coordinates of Q are (-7,0). Find the center of the circle.

6. RS is a diameter of a circle. The coordinates of R are (5,-11) and the coordinates of S are (12,-70) Find the center of the circle.

**An endpoint and a midpoint are given. Find the coordinates of the other endpoint.**

7. Endpoint (2,6) midpoint (5,12) 9. Endpoint (2,3) midpoint (3,-4)

8. Endpoint (0,4) midpoint (5,8) 10. Endpoint (5,15) midpoint (5,10)