

## Writing Equations of Circles

Use the information provided to write the equation of each circle.

1) Center:  $(-14, 14)$   
Radius: 2

2) Center:  $(9, -10)$   
Radius:  $\sqrt{21}$

3) Center:  $\left(-\frac{15}{2}, \frac{3}{2}\right)$   
Radius: 6

4) Center:  $(-8, -7)$   
Radius:  $2\sqrt{26}$

5) Center:  $(6, 0)$   
Radius: 9

6) Center:  $(0, 0)$   
Radius: 14

7) Center:  $(16, 16)$   
Point on Circle:  $(18, 16)$

8) Center:  $(4, -6)$   
Point on Circle:  $(9, -4)$

9) Center:  $(-10, 7)$   
Point on Circle:  $(-9, 7)$

10) Center:  $(0, 0)$   
Point on Circle:  $(0, -2)$

11) Ends of a diameter:  $(0, -3)$  and  $(-8, -9)$

12) Ends of a diameter:  $(-3, 0)$  and  $(-3, -2)$

13) Ends of a diameter:  $(-7, 11)$  and  $(3, -11)$

14) Ends of a diameter:  $(4, -10)$  and  $(-4, 10)$