Name_____

Graphing and Properties of Circles

Date_____ Period____

Identify the center and radius of each.

1) $x^2 + y^2 = 49$

2) $x^2 + y^2 = 324$

3) $(x+2)^2 + (y-3)^2 = 183$

4) $(x+7)^2 + (y+8)^2 = 64$

5) $(x+10)^2 + (y+9)^2 = 36$

6) $(x+5)^2 + (y-10)^2 = 9$

7) $x^2 + (y+2)^2 = 121$

8) $(x-14)^2 + (y-2)^2 = 4$
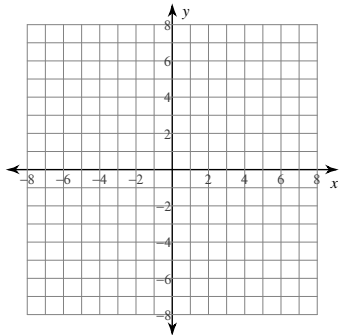
9) $364 + 28y + y^2 + x^2 = -26x$

10) $x^2 + y^2 + 24x + 10y + 160 = 0$

11) $-6x = -x^2 + 32y - 264 - y^2$

12) $-6x + x^2 = 97 + 10y - y^2$

Identify the center and radius of each. Then sketch the graph.

13) $(x+1)^2 + (y-2)^2 = 9$

14) $(x+2)^2 + (y+3)^2 = 4$