Name _____

Date _____ Period _____

Graphing and Properties of Circles

Identify the center and radius of each.

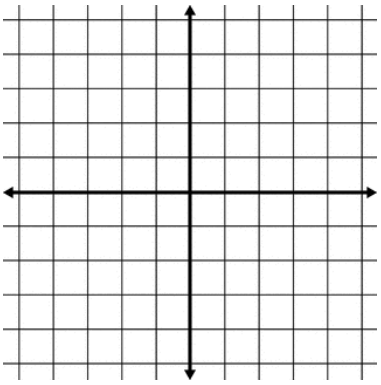
1. $x^2 + y^2 = 49$
2. $x^2 + y^2 = 324$
3. $(x + 2)^2 + (y - 3)^2 = 183$
4. $(x + 7)^2 + (y + 8)^2 = 64$
5. $(x + 10)^2 + (y + 9)^2 = 36$
6. $(x + 5)^2 + (y - 10)^2 = 9$
7. $x^2 + (y + 2)^2 = 121$
8. $(x - 14)^2 + (y - 2)^2 = 4$

Write the equation for the circle given the center and the radius.

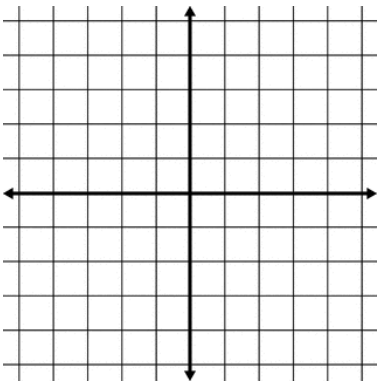
9. Center (0,0) Radius=3
10. Center (0,5) Radius=7
11. Center (-2,2) Radius=6
12. Center (7,-12) Radius=8

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

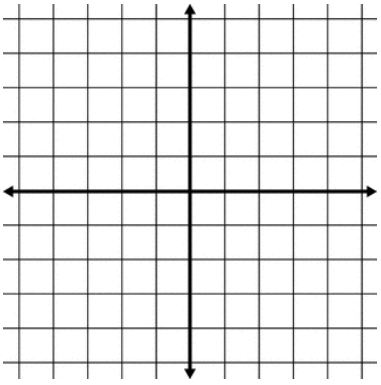
13. $(x+1)^2+(y-2)^2=9$



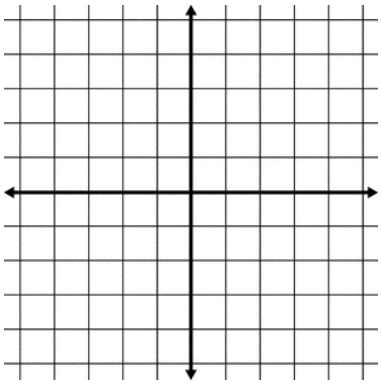
14. $(x+2)^2+(y+3)^2=4$



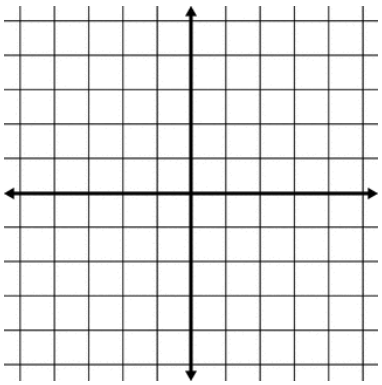
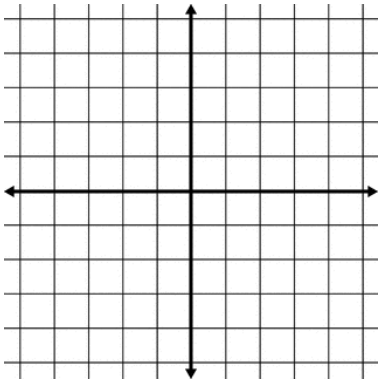
15. $(x+1)^2+(y+2)^2=25$



16. $(x+3)^2+(y-3)^2=16$



17. $(x+3)^2+(y+2)^2=9$



18. $x^2+(y-3)^2=25$