Algebra 2 - Mr. C. Name_____

Practice for Q4HW1 - All work on looseleaf.

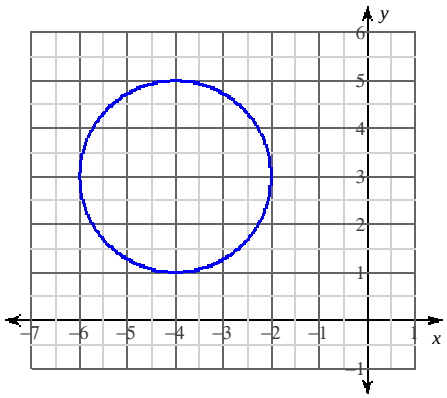
Date_____ Period____

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

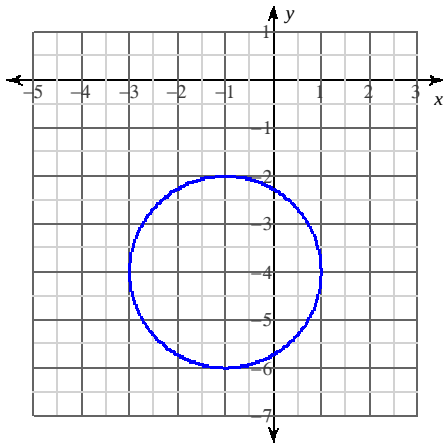
1) Center: $(-2, 14)$
Radius: 4

2) Center: $(-14, 7)$
Radius: 4

3)



4)



5) Ends of a diameter: $(4, 6)$ and $(14, -12)$

6) Ends of a diameter: $(-6, -14)$ and $(-8, -8)$

7) Ends of a diameter: $(13, -3)$ and $(-7, 15)$

8) Ends of a diameter: $(-6, 7)$ and $(18, -3)$

Use the information provided to write the general conic form equation of each circle.

9) $(x - 16)^2 + (y - 13)^2 = 4$

10) $(x - 7)^2 + (y + 8)^2 = 25$

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

11) $x^2 + y^2 + 6x - 8y - 75 = 0$

12) $x^2 + y^2 + 24x - 32y + 396 = 0$

13) $x^2 + y^2 - 24x + 10y + 153 = 0$

14) $x^2 + y^2 - 4x - 12y - 24 = 0$

Answers to Practice for Q4HW1 - All work on looseleaf. (ID: 1)

1) $(x+2)^2+(y-14)^2=16$
2) $(x+14)^2+(y-7)^2=16$
3) $(x+4)^2+(y-3)^2=4$
4) $(x+1)^2+(y+4)^2=4$
5) $(x-9)^2+(y+3)^2=106$
6) $(x+7)^2+(y+11)^2=10$
7) $(x-3)^2+(y-6)^2=181$
8) $(x-6)^2+(y-2)^2=169$
9) $x^2+y^2-32x-26y+421=0$
10) $x^2+y^2-14x+16y+88=0$
11) $(x+3)^2+(y-4)^2=100$
12) $(x+12)^2+(y-16)^2=4$
13) $(x-12)^2+(y+5)^2=16$
14) $(x-2)^2+(y-6)^2=64$