Equations of Circles Practice Name_____ ID: 1

Date_____ Period____

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

1) Center: $(-11, 13)$
Radius: 5

2) Center: $(3, 3)$
Radius: 11

3) Center: $(11, -12)$
Radius: 5

4) Center: $(13, 2)$
Radius: 5

5) Center: $\left(11, \frac{31}{2}\right)$
Radius: 3

6) Center: $(-2, -10)$
Point on Circle: $(-1, -13)$

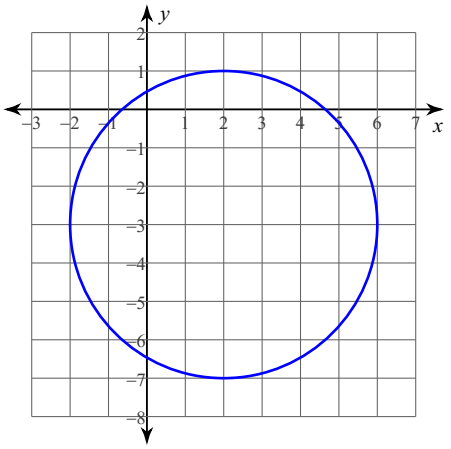
7) Center: $(0, -12)$
Point on Circle: $(-1, -11)$

8) Center: $(2, 3)$
Point on Circle: $(-11, 4)$

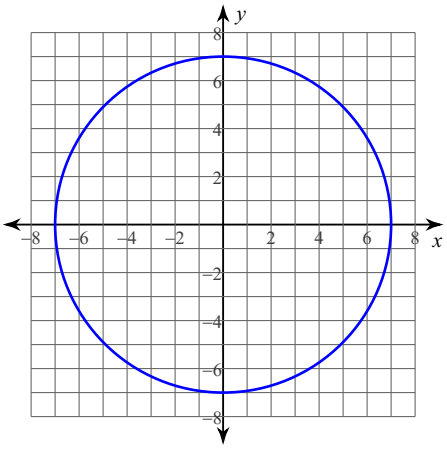
9) Center: $(17, 3)$
Point on Circle: $(16, 2)$

10) Center: $(-14, -8)$
Point on Circle: $(-16, -8)$

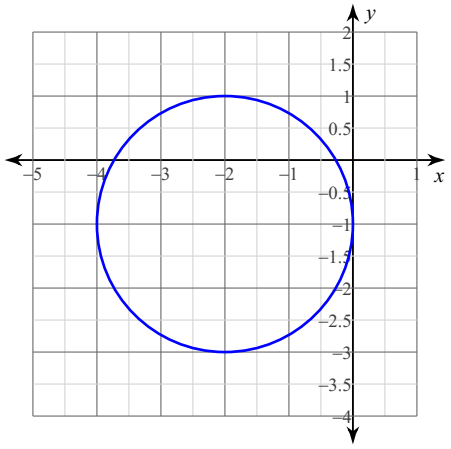
11)



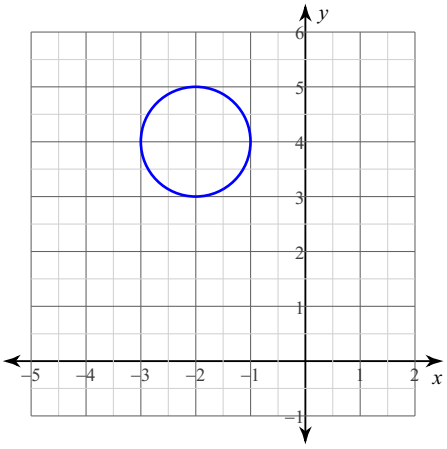
12)



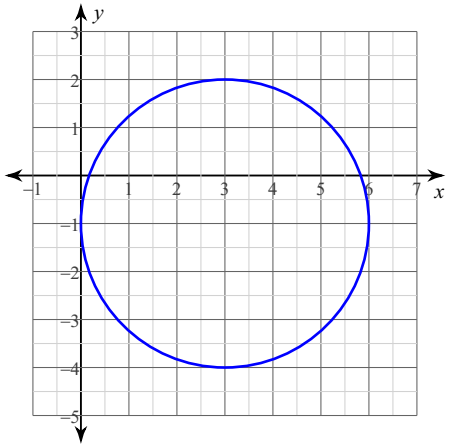
13)



14)



15)



Answers to (ID: 1)

1) $(x+11)^2+(y-13)^2=25$
2) $(x-3)^2+(y-3)^2=121$
3) $(x-11)^2+(y+12)^2=25$
4) $(x-13)^2+(y-2)^2=25$
5) $(x-11)^2+\left(y-\frac{31}{2}\right)^2=9$
6) $(x+2)^2+(y+10)^2=10$
7) $x^2+(y+12)^2=2$
8) $(x-2)^2+(y-3)^2=170$
9) $(x-17)^2+(y-3)^2=2$
10) $(x+14)^2+(y+8)^2=4$
11) $(x-2)^2+(y+3)^2=16$
12) $x^2+y^2=49$
13) $(x+2)^2+(y+1)^2=4$
14) $(x+2)^2+(y-4)^2=1$
15) $(x-3)^2+(y+1)^2=9$