Geometry Name_____ ID: 1

Equations of Circles Homework

Date_____ Period____

Identify the center and radius of each.

1) $(x-13)^2+(y+10)^2=25$

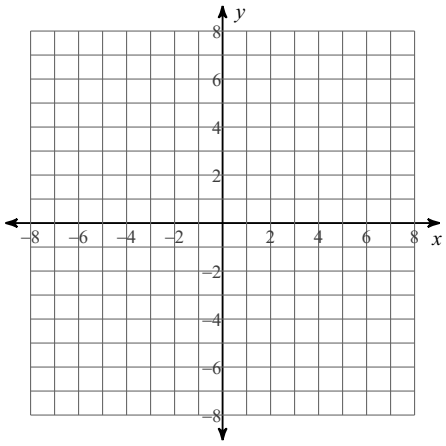
2) $(x-8)^2+(y-1)^2=49$

3) $(x-12)^2+(y+11)^2=16$

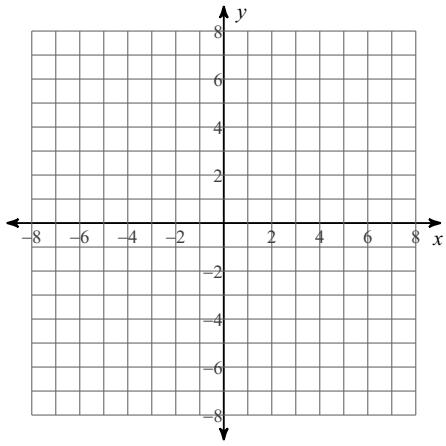
4) $(x+2)^2+(y+4)^2=81$

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

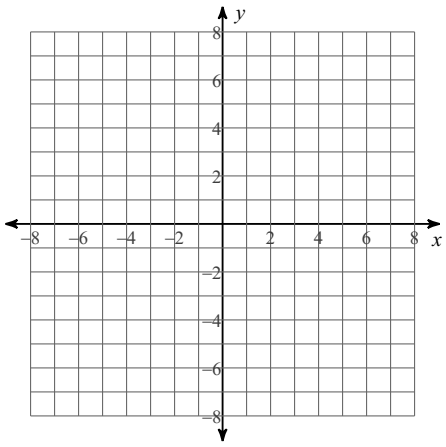
5) $(x-3)^2+(y-2)^2=4$



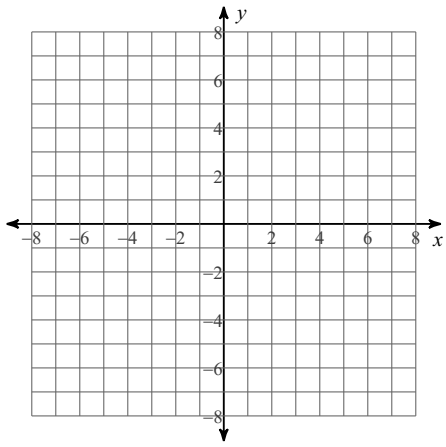
6) $(x+1)^2+(y-2)^2=4$



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



8) $(x-4)^2+(y-1)^2=9$



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

9) Center: $(10, 6)$
Radius: 6

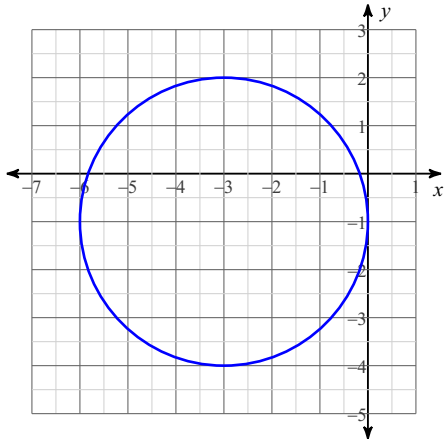
10) Center: $(-5, 1)$
Radius: 6

11) Center: $(14, 8)$
Radius: $2\sqrt{6}$

12) Center: $(-10, 5)$
Radius: 2

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

13)



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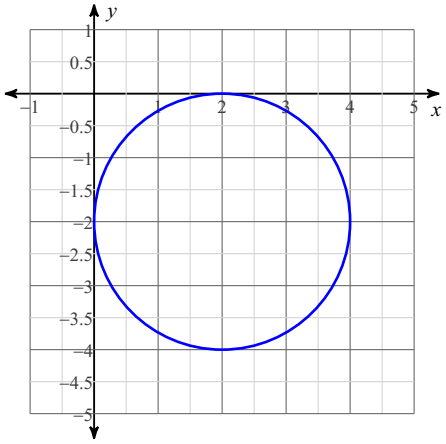
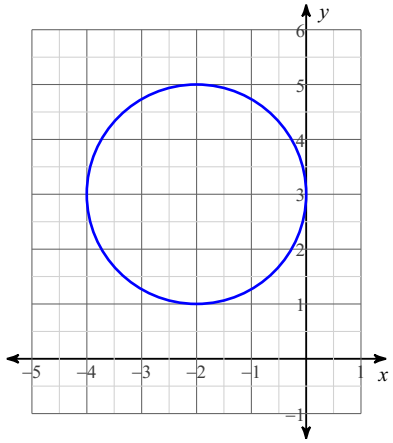
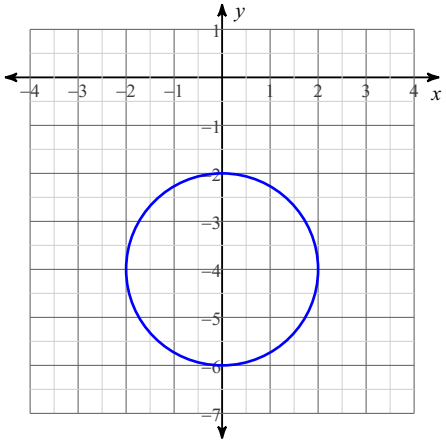


15)



16)



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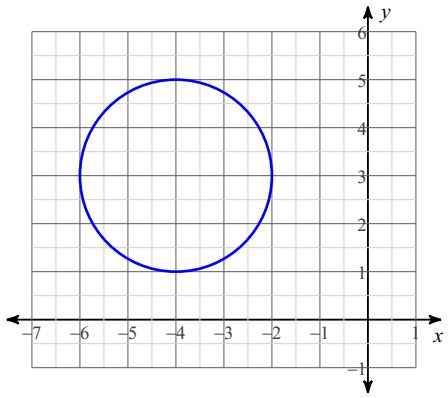

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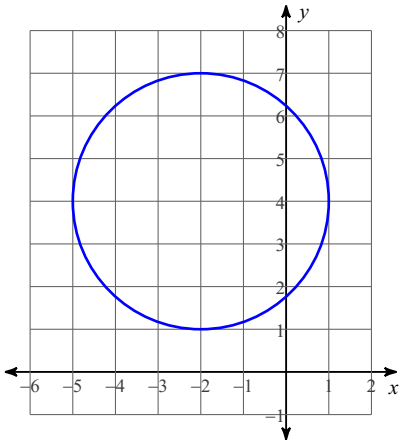


Geometry Name_____ ID: 1

Equations of Circles Homework

Date_____ Period____

Identify the center and radius of each.

1) $(x-13)^2+(y+10)^2=25$

Center: $(13, -10)$

Radius: 5

2) $(x-8)^2+(y-1)^2=49$

Center: $(8, 1)$

Radius: 7

3) $(x-12)^2+(y+11)^2=16$

Center: $(12, -11)$

Radius: 4

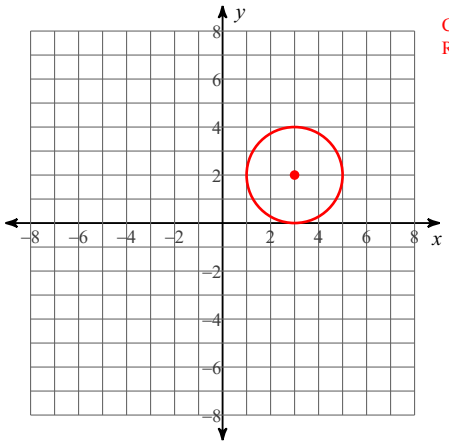
4) $(x+2)^2+(y+4)^2=81$

Center: $(-2, -4)$

Radius: 9

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

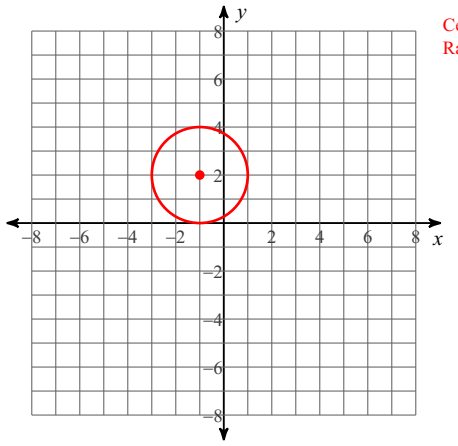
5) $(x-3)^2+(y-2)^2=4$



Center: $(3, 2)$

Radius: 2

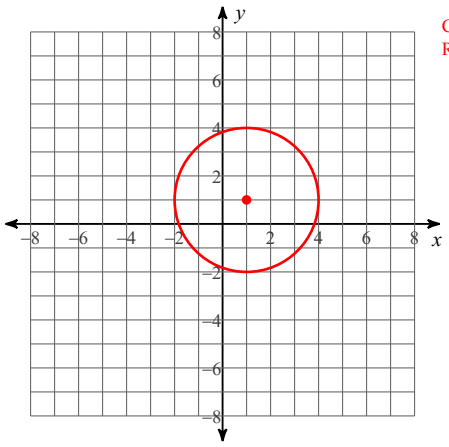
6) $(x+1)^2+(y-2)^2=4$



Center: $(-1, 2)$

Radius: 2

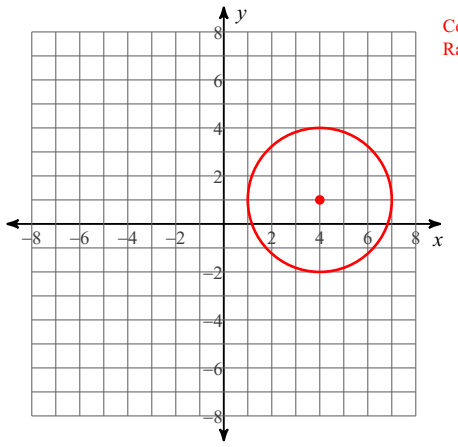
7) $(x-1)^2+(y-1)^2=9$



Center: $(1, 1)$

Radius: 3

8) $(x-4)^2+(y-1)^2=9$



Center: $(4, 1)$

Radius: 3

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

9) Center: $(10, 6)$

Radius: 6

$(x-10)^2+(y-6)^2=36$

10) Center: $(-5, 1)$

Radius: 6

$(x+5)^2+(y-1)^2=36$

11) Center: $(14, 8)$
Radius: $2\sqrt{6}$

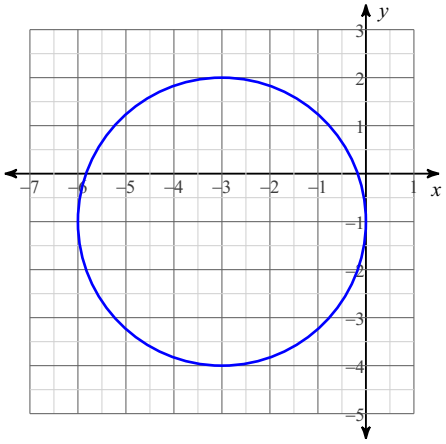
$(x-14)^2+(y-8)^2=24$

12) Center: $(-10, 5)$
Radius: 2

$(x+10)^2+(y-5)^2=4$

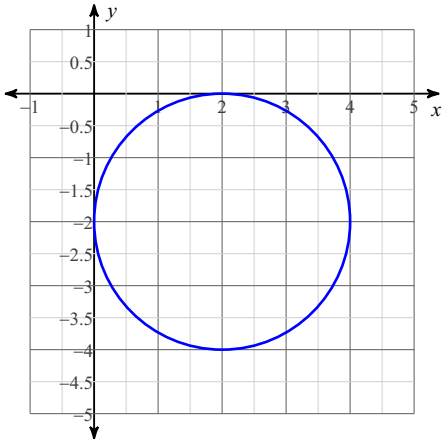
Use the information provided to write the equation of each circle.

13)



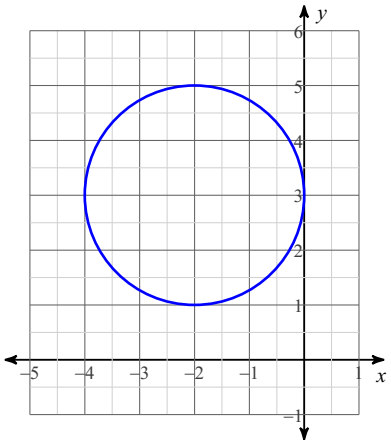
$(x+3)^2+(y+1)^2=9$

14)



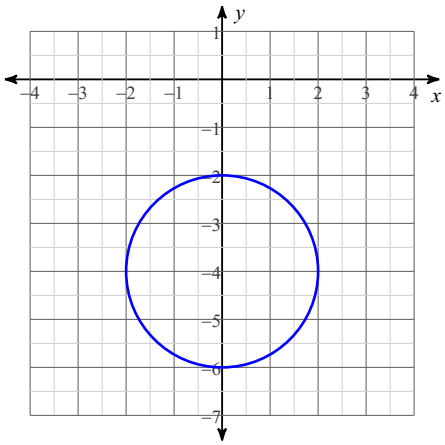
$(x-2)^2+(y+2)^2=4$

15)



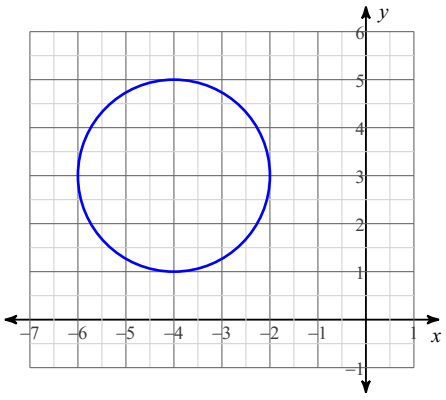
$(x+2)^2+(y-3)^2=4$

16)



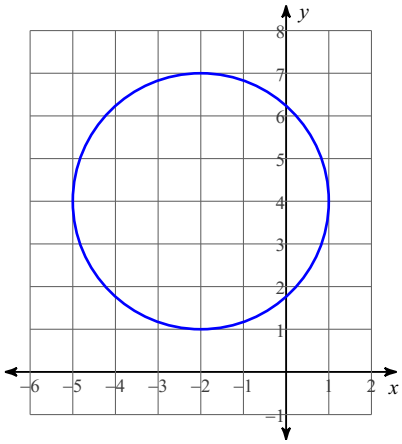
$x^2+(y+4)^2=4$

17)



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

18)



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