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I. Model Problems.
II. Practice Problems
III. Mixed Problems

Web Resources

Equation of A Circle
www.mathwarehouse.com/geometry/circle/equation-of-a-circle.php
Pictures of Equations of Circles
www.mathwarehouse.com/geometry/circle/images/equation-of-circle/
Free Graph Paper : www.mathworksheetsgo.com/paper/

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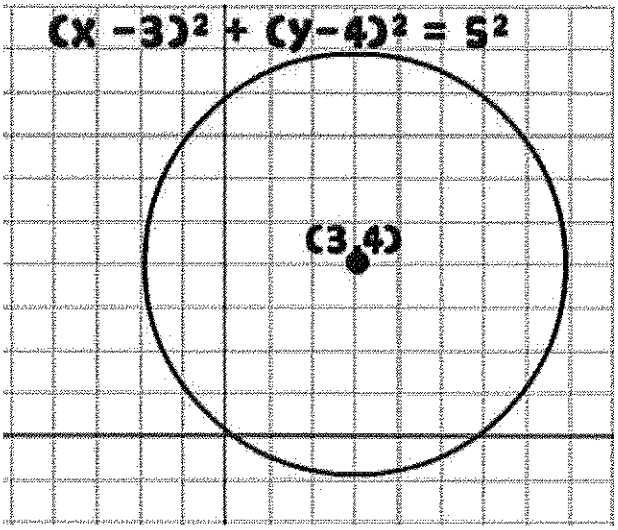
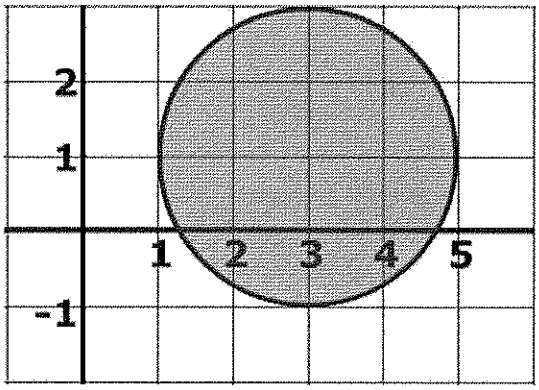
Standard Form Equation of A Circle

Example of the Standard Form Equation of a Circle

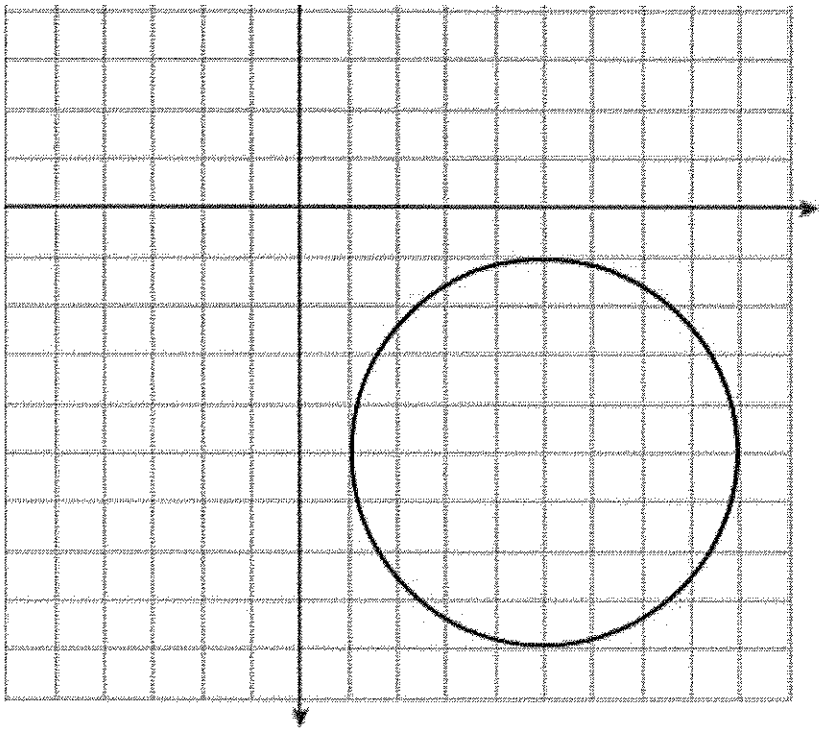


Model Problem 1

2) What is the equation of the circle on the right?



Model Problem 2
What is the equation of the circle below?



Model Problem 3 and 4

Identify the coordinates of the center and the length of the radius in the circles below

$(X - 5)^2 + (y + 2)^2 = 4$ **radius:** **Center: (___, _____)**

$(X + 2)^2 + (y - 1)^2 = 9$ **radius:** **Center: (___, _____)**

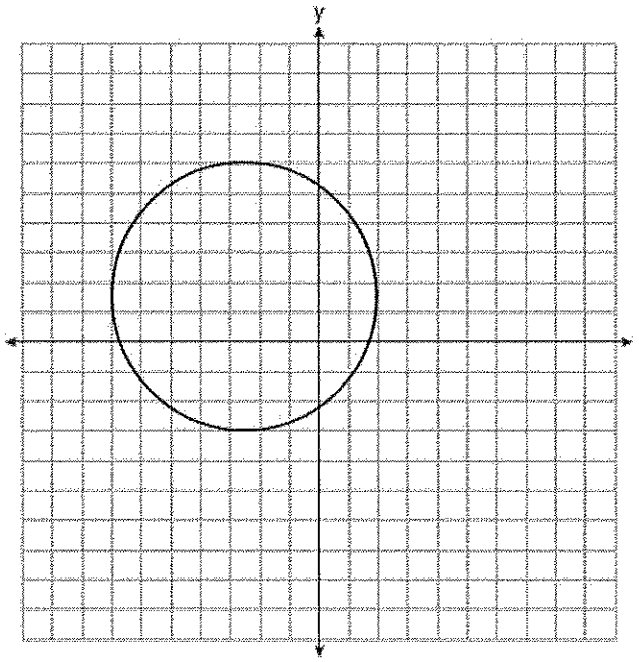
Part I
Identify the coordinates of the center and the length of the radius in the circles below.

1) $(X - 1)^2 + (y - 3)^2 = 9$ **radius:** **Center: (___, _____)**

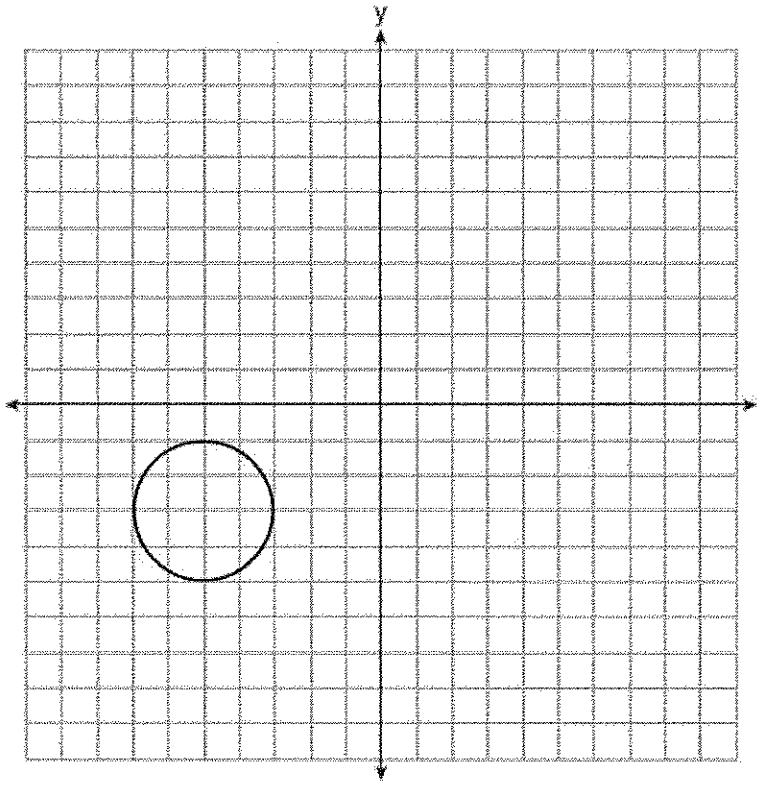
2) $(X + 14)^2 + (y - 5)^2 = 16$ **radius:** **Center: (___, _____)**

3) $(X - 5)^2 + (y - 1)^2 = 25$ **radius:** **Center: (___, _____)**

4) What is the equation of the circle pictured below



5) What is the equation of the circle pictured below



Part II.
Use the attached graph paper to draw the graph of the following equations

1) $(X + 4)^2 + (y - 8)^2 = 6^2$

2) $(X - 2)^2 + (y + 2)^2 = 7^2$

3) $(x - 1)^2 + (y + 2)^2 = 64$

Write the equation of circle and draw its graph given the radius and center below

4) radius = 9 Center(-1,1)
Equation:_____

Draw graph on attached sheet

5) radius = 3 Center(-5,4)

Equation:_____

Draw graph on attached sheet

6) radius = 4 Center(3,1)

Equation:_____

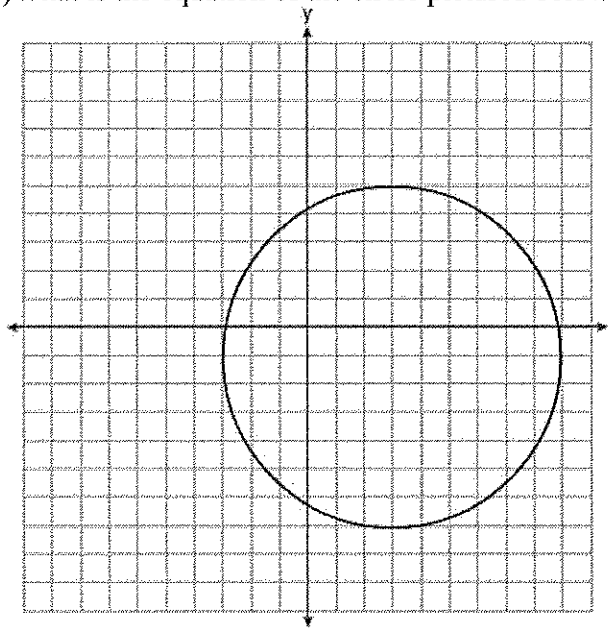
Homework:

1) $(x + 2)^2 + (y - 12)^2 = 36$ **radius:** **Center: (___, _____)**

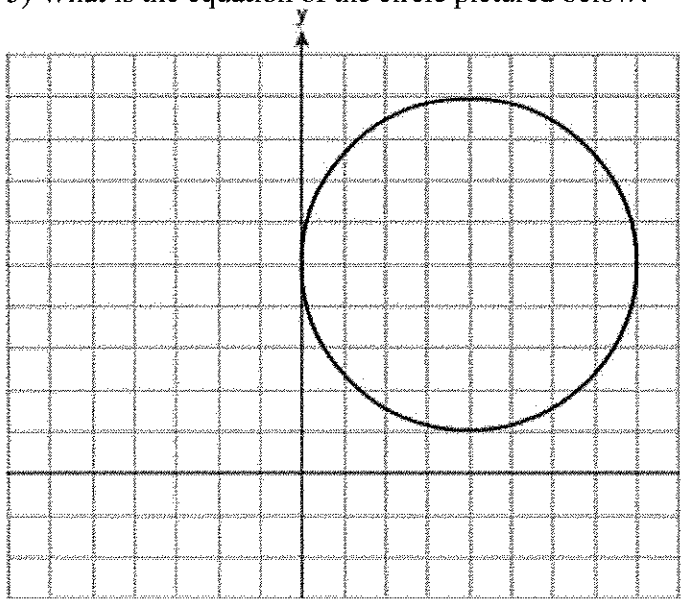
2) $(y+7)^2 + (X + 5)^2 = 49$ **radius:** **Center: (___, _____)**

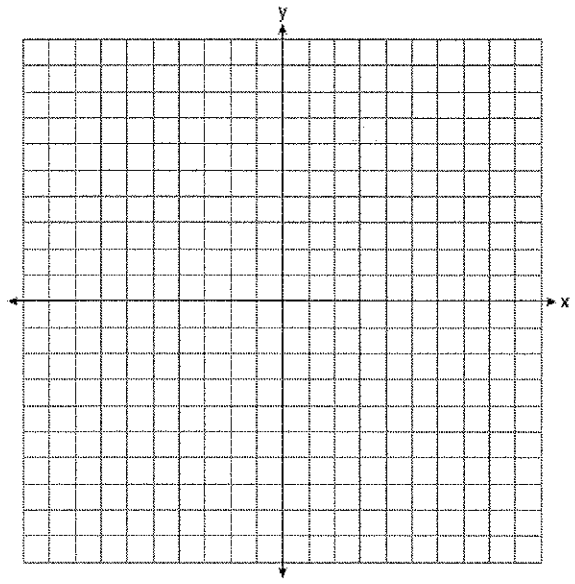
3) $(X + 8)^2 + (y+17)^2 = 49$ **radius:** **Center: (___, _____)**

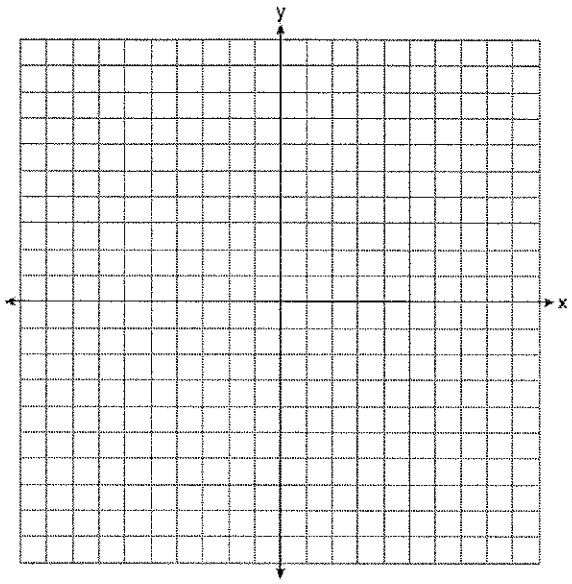
4)What is the equation of the circle pictured below?

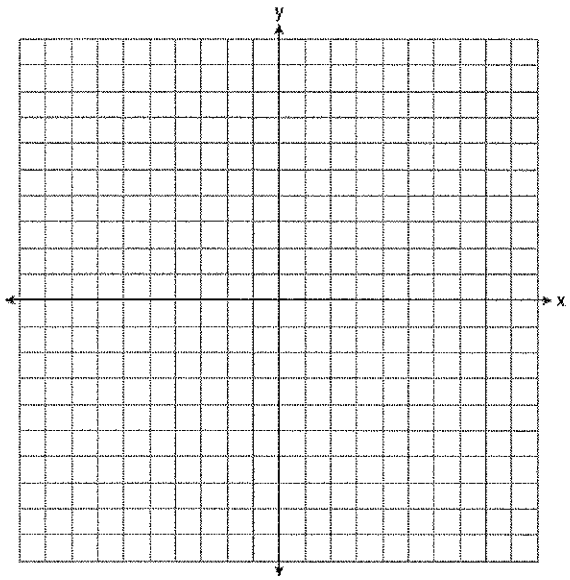


5) What is the equation of the circle pictured below?




y
x


y
x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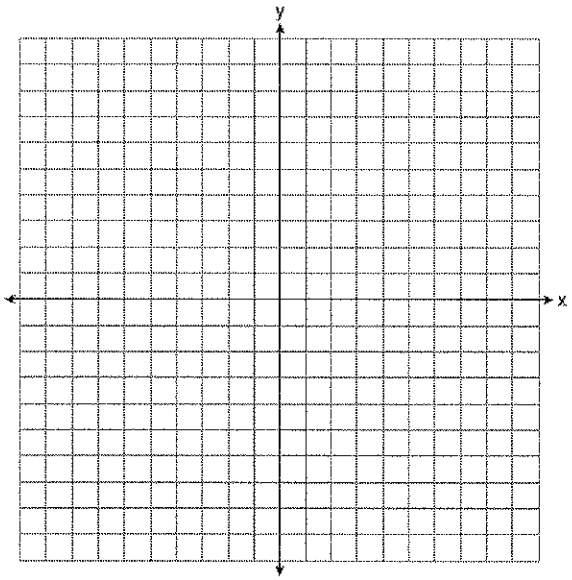
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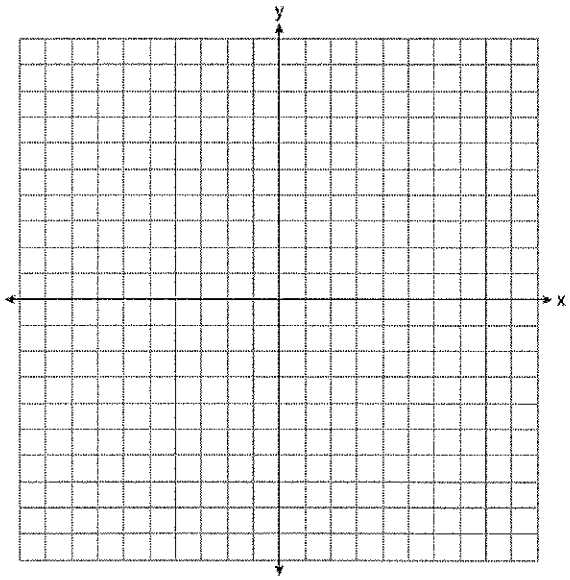
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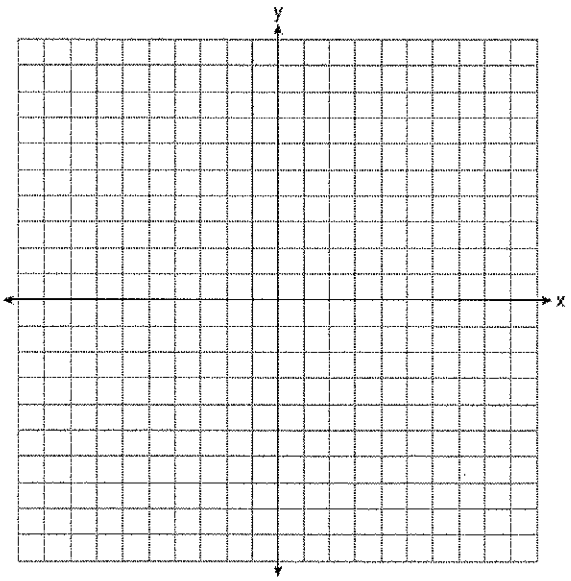
y
x