

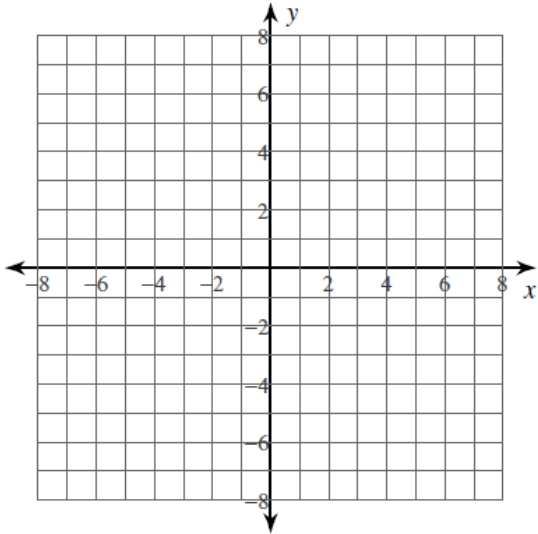
Intro to Geometry (G.C.5)**Unit Five: Equations of Circles (HW4)**

Name: _____

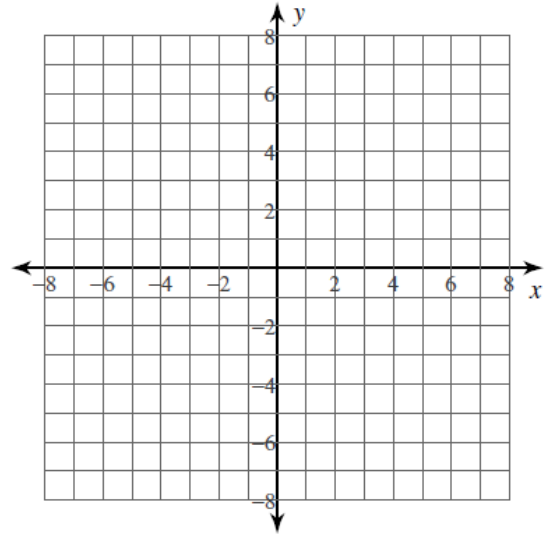
Date: _____ Period: _____

Graph the circle given by each equation below.

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

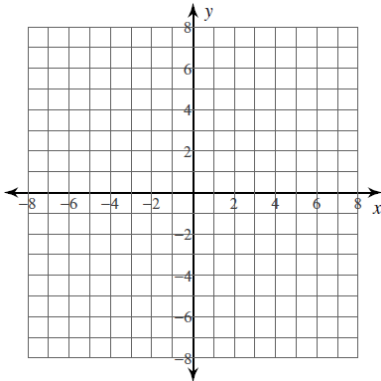


2) $x^2 + (y - 3)^2 = 14$

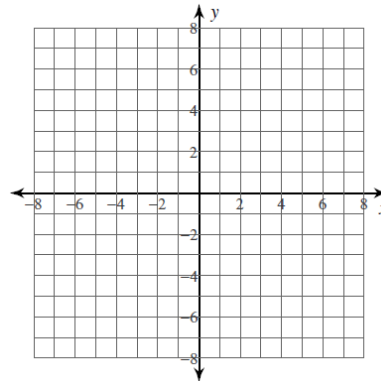


Use the information provided to write the equation of a circle that fits the criteria given. Use a graph to help you if necessary.

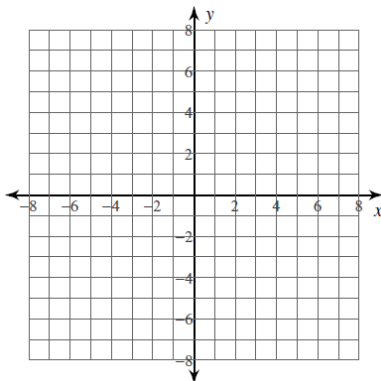
3) Center: (13, -13) Radius = 3



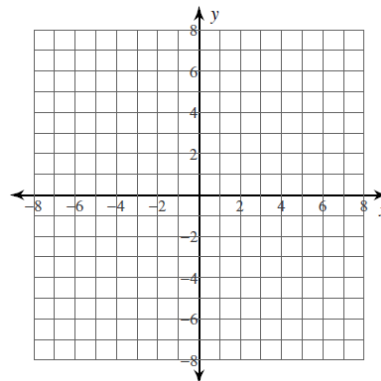
4) Center: (3, -2) Point on the Circle: (7, -2)



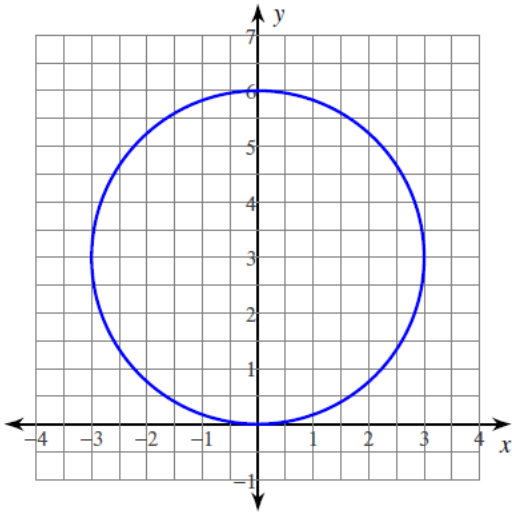
5) Center: (5, -3) Tangent to $y = 4$



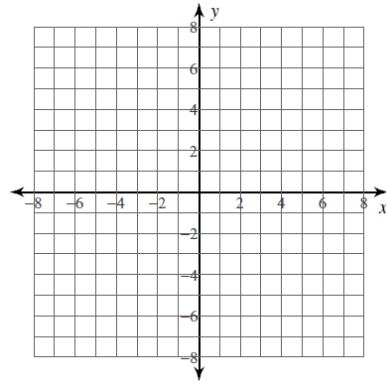
6) Center: (0, 3) Point on the Circle: (6, 4)



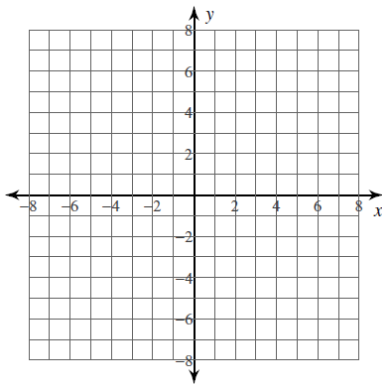
- 7) Write the equation of each graphed circle or the circle in the description.



- 8) Translate the circle $(x - 2)^2 + (y + 4)^2 = 1$ up 3 and left 6.



- 9) Dilate the circle $(x - 1)^2 + y^2 = 9$ by a factor of 3.



- 10) A circle with center $(-1, 5)$ and an area of 25π .

