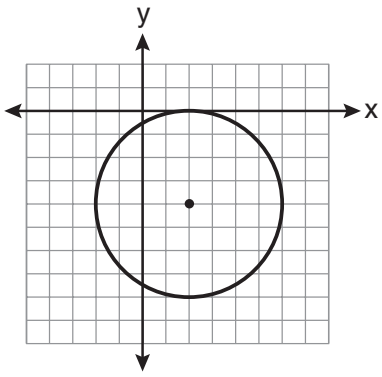
June 4, Class 9A, Week 6, Lesson B Boiangiu, Brickman, Epstein, Mousseiri, Zelikovitz

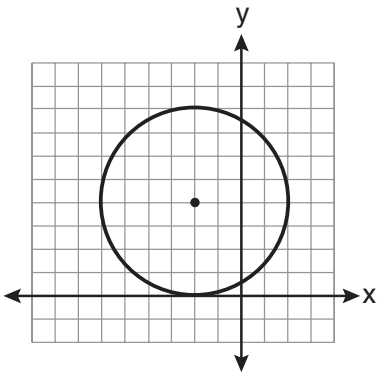
Assignment: Do the 4 following problems attached

Use this space for computations.

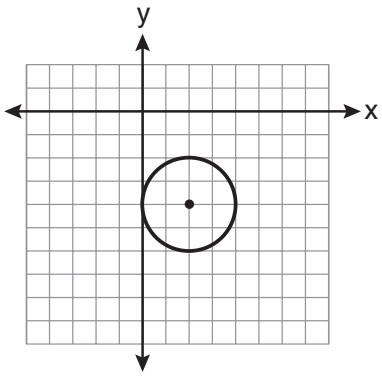
1. The equation of a circle is $(x - 2) + (y + 4) 2 = 4$. Which diagram is the graph of the circle?



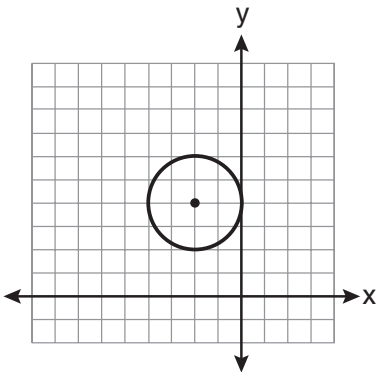
(1)



(3)



(2)

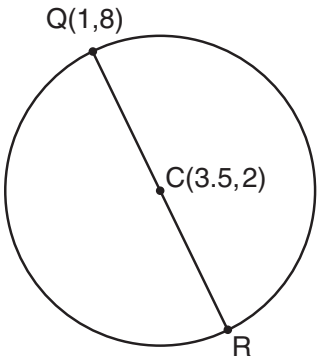


(4)

[1]

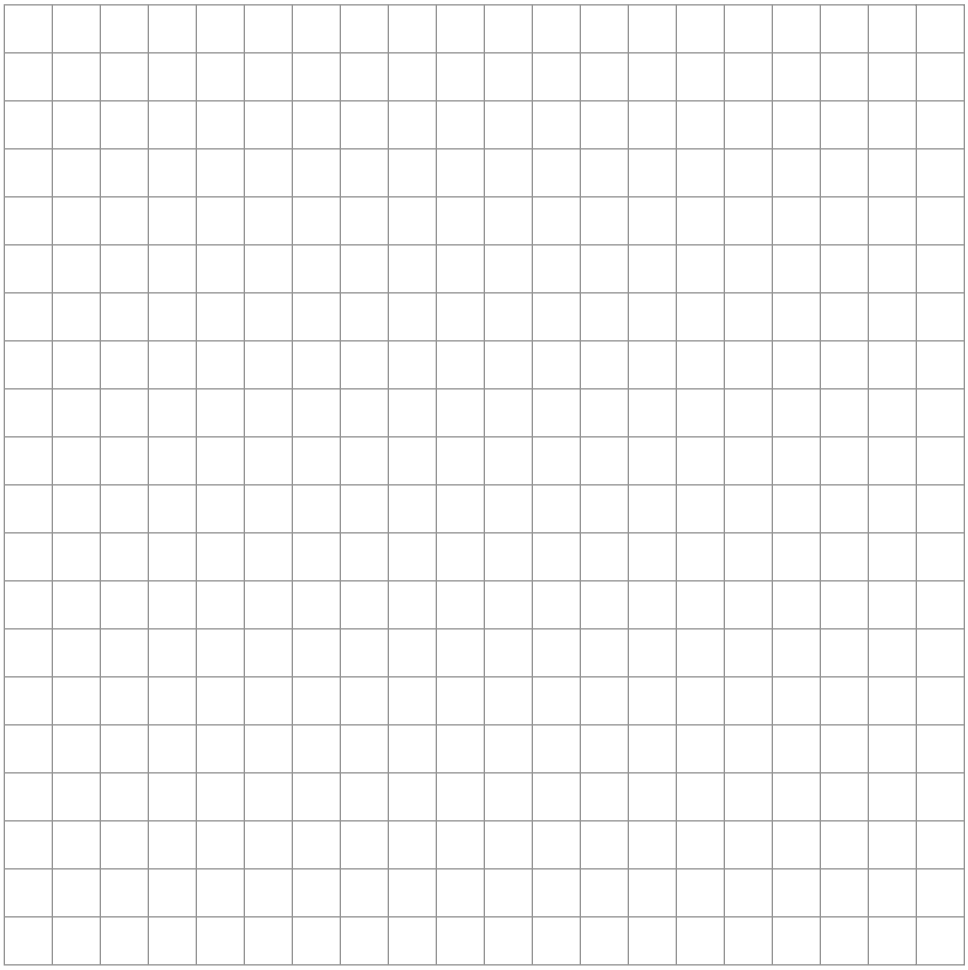
2. In the diagram below of circle C, $\overline{QR}$ is a diameter, and $Q(1,8)$ and $C(3.5, 2)$ are points on a coordinate plane.

Find and state the coordinates of point R.



[2]

3. Write an equation of the circle whose diameter $\overline{AB}$ has endpoints $A(-4,2)$ and $B(4,-4)$.
[The use of the grid below is optional.]



[3]

4. In the diagram below, car *A* is parked 7 miles from car *B*. Sketch the points that are 4 miles from car *A* and sketch the points that are 4 miles from car *B*. Label with an **X** all points that satisfy both conditions.

[4]