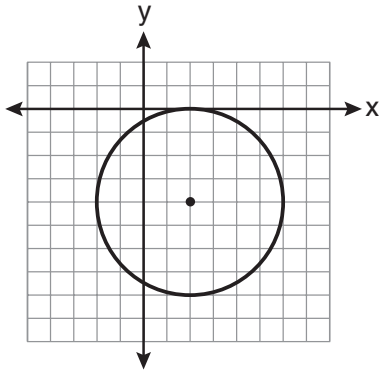


June 4 Class 11B, Week 6, Lesson B:  
Federman, Perlow, Schechter.

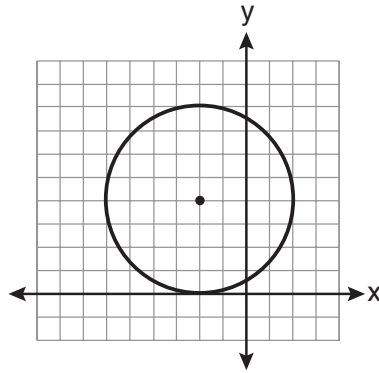
Assignment: Do the 4 following problems attached

Use this space for computations.

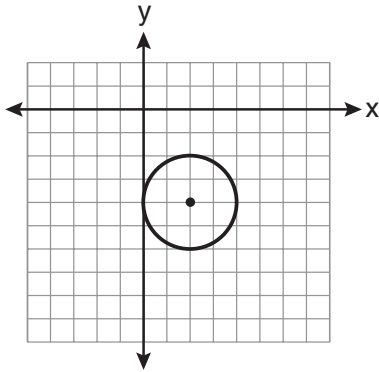
1. The equation of a circle is  $(x - 2)^2 + (y + 4)^2 = 4$ . Which diagram is the graph of the circle?



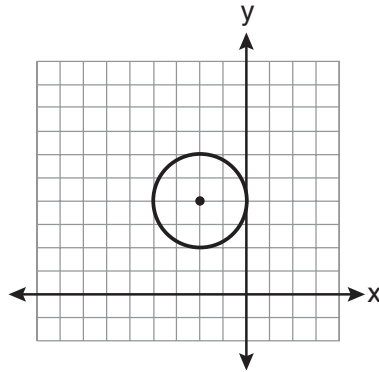
(1)



(3)



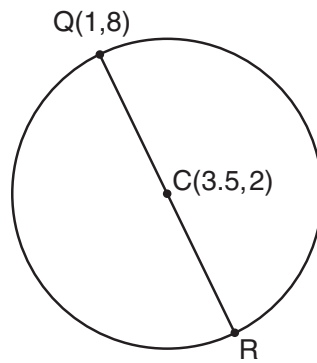
(2)



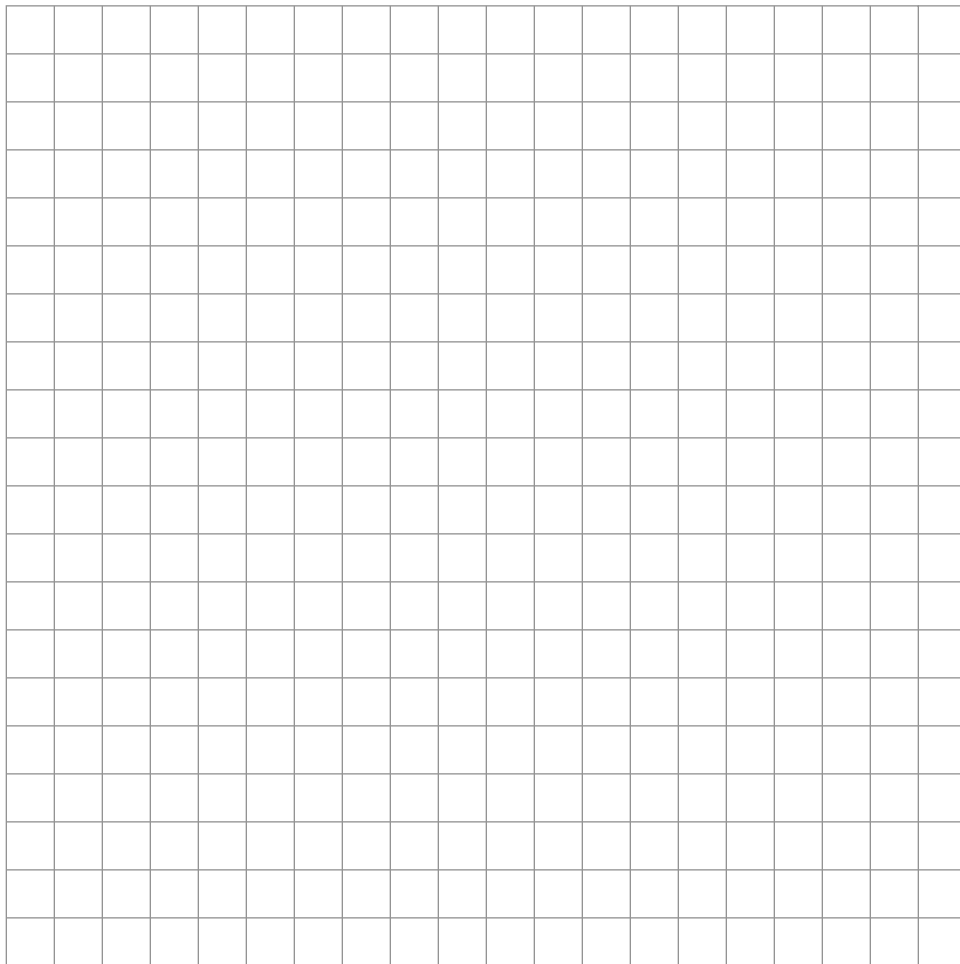
(4)

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  $R$ .



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.]



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.

Car A  
●

Car B  
●