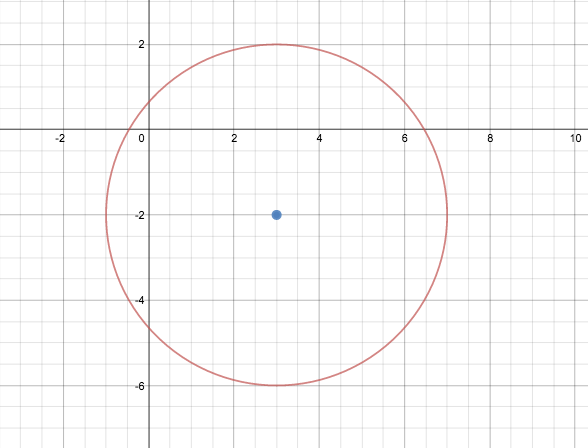
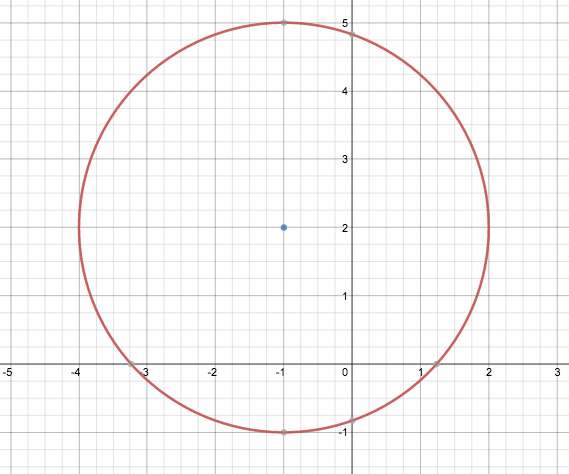
Equations of Circles Review Problems

To Know:

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| --- |
| with center (h,k) and radius r  Midpoint formula Distance Formula:  To complete the square: Add where b is the coefficient of the x term to both sides. |

# I. Writing the equation of a circle given… 1. A graph. Write the equation of graphs A and B on the lines provided below

 A. B.



A. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ B\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. A center and a radius.  
  
A. Center (-10, -4) ; Radius B. Center (5, -1) ; Radius

A. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ B\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. A center and a point  
  
A. Center (3, 2) ; Point (-1,5) B. Center (0, 3) ; Point (4,2)

A. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ B\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## 4. Two points on a diameter

A. Points (5,8) and (-5,-2) B. Points (3,2) and (11, 10)

A. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ B\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. The center and a circumference. CIRCUMFERENCE FORMULA:

The circumference of a circle is with a center of (-2, -5). Solve for the radius using the circumference formula and then write the equation of the circle.

# II. Graphing a circle given its equation.

1. Graph

# III. Changing from general form to standard form by completing the square

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