BECA / Dr. Huson / Geometry 08-Area+volume

Name:

pset ID: 145

8-9CW-Circle-equation

1. What is the equation of a circle with center (5,7) and radius r=3?

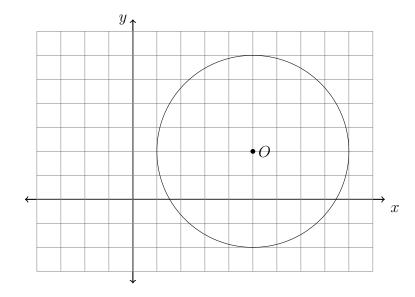
2. What are the coordinates of the center and the length of the radius of the circle whose equation is $(x-3)^2 + y^2 = 16$?

3. What is the equation of a circle with center (-3,7) and radius r=4?

4. The equation of a cirle is $x^2 + 8x + y^2 - 12y = 144$. What are the coordinates of the center and the length of the radius of the circle?

- (a) center (4, -6) and radius 12
- (b) center (-4,6) and radius 12
- (c) center (4, -6) and radius 14
- (d) center (-4,6) and radius 14

5. What is an equation of circle O shown in the graph below?



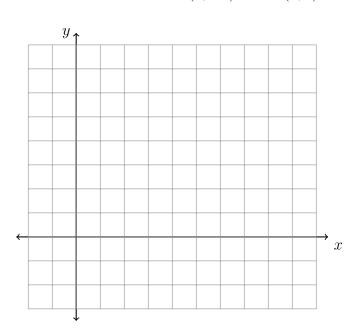
(a)
$$x^2 + 10x + y^2 + 4y = -13$$

(c)
$$x^2 + 10x + y^2 + 4y = -25$$

(b)
$$x^2 - 10x + y^2 - 4y = -13$$

(d)
$$x^2 - 10x + y^2 - 4y = -25$$

- 6. What are the coordinates of the center and the length of the radius of the circle whose equation is $x^2 + y^2 = 8x 6y + 39$?
 - (a) center (-4,3) and radius 64
 - (b) center (4, -3) and radius 64
 - (c) center (-4,3) and radius 8
 - (d) center (4, -3) and radius 8
- 7. What is an equation of a circle whose center is (1,4) and diameter is 10?
 - (a) $x^2 2x + y^2 8y = 8$
 - (b) $x^2 + 2x + y^2 + 8y = 8$
 - (c) $x^2 2x + y^2 8y = 83$
 - (d) $x^2 + 2x + y^2 + 8y = 83$
- 8. The equation of a cirle is $x^2 + y^2 + 4x 8y = -16$. The statement that best describes circle O is the
 - (a) center is (2, -4) and is tangent to the x-axis
 - (b) center is (2, -4) and is tangent to the y-axis
 - (c) center is (-2,4) and is tangent to the x-axis
 - (d) center is (-2,4) and is tangent to the y-axis
- 9. What is the equation of a circle whose diameter is \overline{AB} with A(2,-1) and B(8,7)?

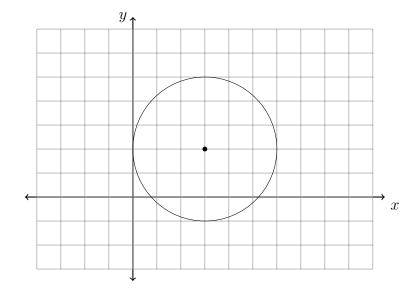


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8.9 Exit Note: The equation for a circle

- 10. What are the coordinates of the center and the length of the radius of the circle whose equation is $(x+8)^2 + (y-3)^2 = 4$?
- 11. What is the equation of a circle with center (1, -9) and radius r = 8?
- 12. What is an equation of circle O shown in the graph below?



- 13. The equation of a cirle is $x^2 + y^2 6x + 2y = 6$. What are the coordinates of the center and the length of the radius of the circle?
 - (a) center (-3,1) and radius 4
 - (b) center (3, -1) and radius 4
 - (c) center (-3,1) and radius 16
 - (d) center (3, -1) and radius 16