

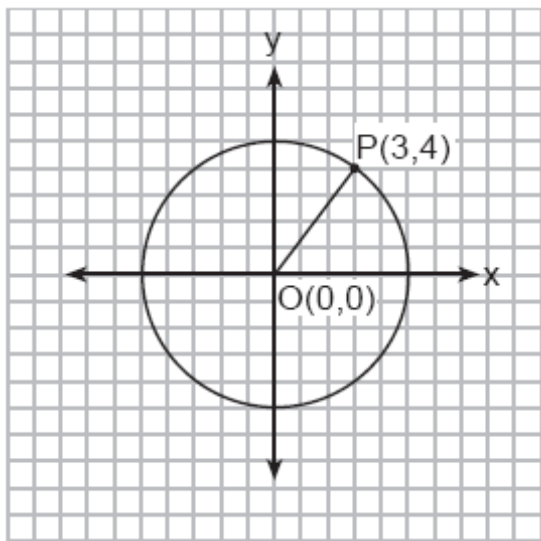
NAME: _____

1. 060008a, P.I. G.G.71
Which equation represents a circle whose center is $(3, -2)$?
[A] $(x - 3)^2 + (y + 2)^2 = 4$
[B] $(x + 3)^2 + (y - 2)^2 = 4$
[C] $(x + 2)^2 + (y - 3)^2 = 4$
[D] $(x - 2)^2 + (y + 3)^2 = 4$
2. 060910ge, P.I. G.G.71
What is an equation of a circle with its center at $(-3, 5)$ and a radius of 4?
[A] $(x + 3)^2 + (y - 5)^2 = 4$
[B] $(x - 3)^2 + (y + 5)^2 = 4$
[C] $(x - 3)^2 + (y + 5)^2 = 16$
[D] $(x + 3)^2 + (y - 5)^2 = 16$
3. 010514b, P.I. G.G.71
What is the equation of a circle with center $(-3, 1)$ and radius 7?
[A] $(x - 3)^2 + (y + 1)^2 = 49$
[B] $(x - 3)^2 + (y + 1)^2 = 7$
[C] $(x + 3)^2 + (y - 1)^2 = 7$
[D] $(x + 3)^2 + (y - 1)^2 = 49$
4. 060110b, P.I. G.G.71
The center of a circular sunflower with a diameter of 4 centimeters is $(-2, 1)$. Which equation represents the sunflower?
[A] $(x + 2)^2 + (y - 1)^2 = 4$
[B] $(x - 2)^2 + (y - 1)^2 = 4$
[C] $(x - 2)^2 + (y + 1)^2 = 2$
[D] $(x + 2)^2 + (y - 1)^2 = 2$
5. 010912b, P.I. G.G.71
A graphic designer is drawing a pattern of four concentric circles on the coordinate plane. The center of the circles is located at $(-2, 1)$. The smallest circle has a radius of 1 unit. If the radius of each of the circles is one unit greater than the largest circle within it, what would be the equation of the fourth circle?
[A] $(x - 2)^2 + (y + 1)^2 = 4$
[B] $(x + 2)^2 + (y - 1)^2 = 16$
[C] $(x + 2)^2 + (y - 1)^2 = 4$
[D] $(x - 2)^2 + (y + 1)^2 = 16$
6. fall0820ge, P.I. G.G.71
The diameter of a circle has endpoints at $(-2, 3)$ and $(6, 3)$. What is an equation of the circle?
[A] $(x + 2)^2 + (y + 3)^2 = 4$
[B] $(x + 2)^2 + (y + 3)^2 = 16$
[C] $(x - 2)^2 + (y - 3)^2 = 4$
[D] $(x - 2)^2 + (y - 3)^2 = 16$

NAME: _____

7. 080823a, P.I. G.G.72

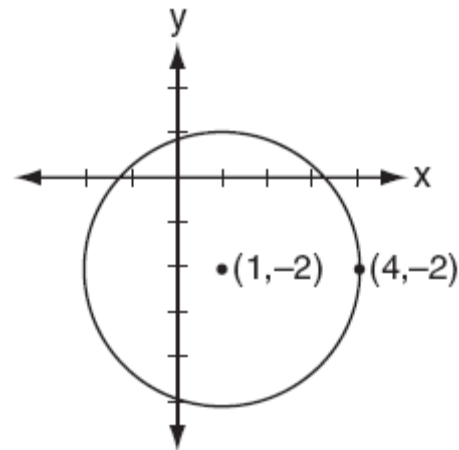
In the accompanying diagram, the center of circle O is $(0,0)$, and the coordinates of point P are $(3,4)$. If \overline{OP} is a radius, what is the equation of the circle?



- [A] $x^2 + y^2 = 9$ [B] $x^2 + y^2 = 25$
 [C] $x^2 + y^2 = 16$ [D] $x^2 + y^2 = 5$

8. 010716b, P.I. G.G.72

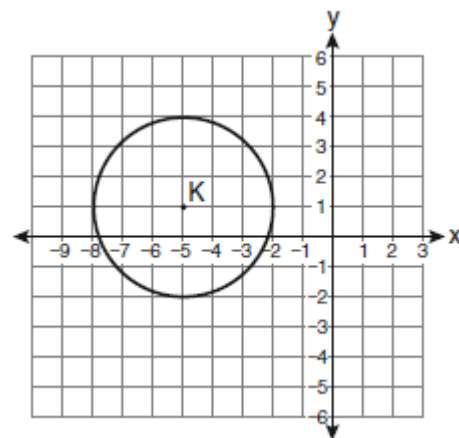
Which equation represents the circle shown in the accompanying graph?



- [A] $(x+1)^2 + (y-2)^2 = 9$
 [B] $(x-1)^2 - (y+2)^2 = 9$
 [C] $(x+1)^2 - (y-2)^2 = 9$
 [D] $(x-1)^2 + (y+2)^2 = 9$

9. 080921ge, P.I. G.G.72

Which equation represents circle K shown in the graph below?



- [A] $(x-5)^2 + (y+1)^2 = 3$
 [B] $(x+5)^2 + (y-1)^2 = 3$
 [C] $(x+5)^2 + (y-1)^2 = 9$
 [D] $(x-5)^2 + (y+1)^2 = 9$

[1] A

[2] D

[3] D

[4] A

[5] B

[6] D

[7] B

[8] D

[9] C