

NAME: _____

G.G.71: Write the equation of a circle, given its center and radius or given the endpoints of a diameter

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. 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] $(x - 3)^2 + (y + 1)^2 = 49$

[D] $(x - 3)^2 + (y + 1)^2 = 7$

3. 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] $(x + 3)^2 + (y - 5)^2 = 16$

[B] $(x - 3)^2 + (y + 5)^2 = 16$

[C] $(x + 3)^2 + (y - 5)^2 = 4$

[D] $(x - 3)^2 + (y + 5)^2 = 4$

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] $(x + 2)^2 + (y - 1)^2 = 16$

[B] $(x + 2)^2 + (y - 1)^2 = 4$

[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] $(x - 2)^2 + (y - 3)^2 = 4$

[C] $(x + 2)^2 + (y + 3)^2 = 16$

[D] $(x - 2)^2 + (y - 3)^2 = 16$

G.G.71: Write the equation of a circle, given its center and radius or given the endpoints of a diameter

[1] A

[2] A

[3] A

[4] A

[5] A

[6] D