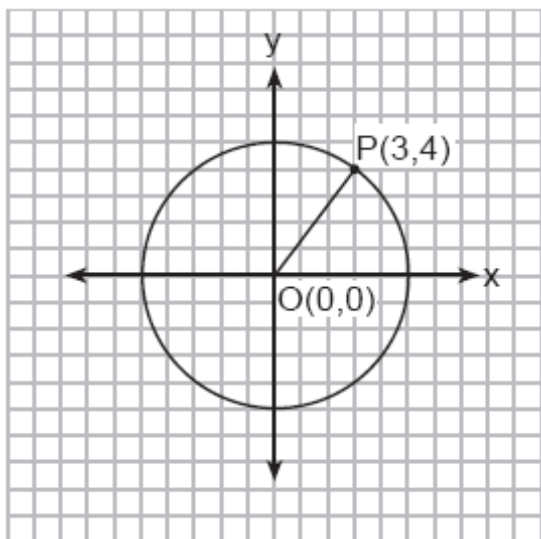


NAME: _____

G.G.72: Write the equation of a circle, given its graph *Note: The center is an ordered pair of integers and the radius is an integer*

1. 080823a, P.I. G.G.72

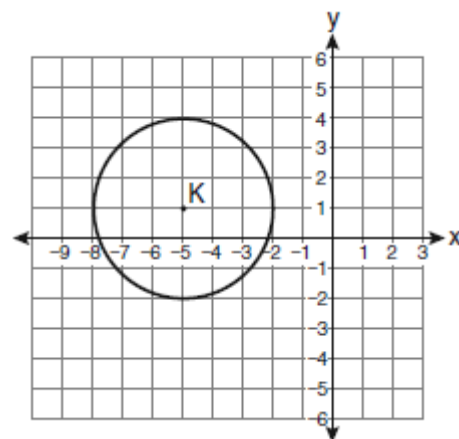
In the accompanying diagram, the center of circle O is $(0,0)$, and the coordinates of point P are $(3,4)$. If \overline{OP} is a radius, what is the equation of the circle?



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

2. 080921ge, P.I. G.G.72

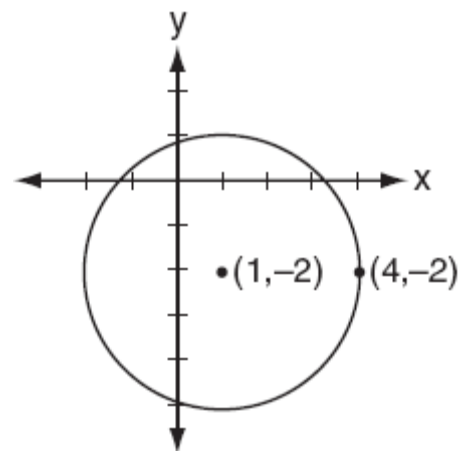
Which equation represents circle K shown in the graph below?



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

3. 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] $(x-1)^2 + (y+2)^2 = 9$

G.G.72: Write the equation of a circle, given its graph Note: The center is an ordered pair of integers and the radius is an integer

[1] A _____

[2] C _____

[3] D _____