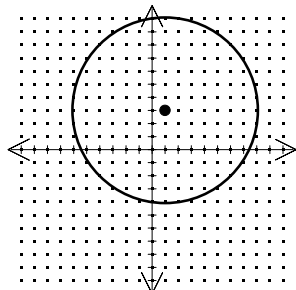


P.I. G.G.72: Write the equation of a circle given its graph (Note: The center is an ordered pair of integers and the radius is an integer)

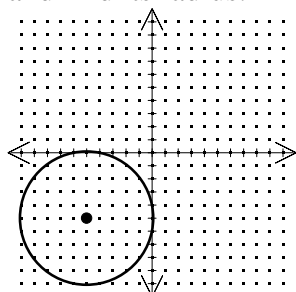
P.I. A2.A.49: Write the equation of a circle from its graph

1. A small messenger company can only deliver in a small part of the city. Write an equation for the boundary where the company delivers, and find its radius.



- [A] $(x-1)^2 + (y-3)^2 = 49$; $r = 7$ blocks
 [B] $(x-1)^2 + (y-3)^2 = 49$; $r = 49$ blocks
 [C] $(x+3)^2 + (y+1)^2 = 98$; $r = 49$ blocks
 [D] $(x+3)^2 + (y+1)^2 = 98$; $r = 7$ blocks

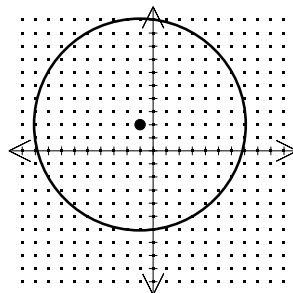
2. A small messenger company can only deliver in a small part of the city. Write an equation for the boundary where the company delivers, and find its radius.



- [A] $(x-5)^2 + (y-5)^2 = 50$; $r = 25$ blocks
 [B] $(x-5)^2 + (y-5)^2 = 50$; $r = 5$ blocks
 [C] $(x+5)^2 + (y+5)^2 = 25$; $r = 5$ blocks
 [D] $(x+5)^2 + (y+5)^2 = 25$; $r = 25$ blocks

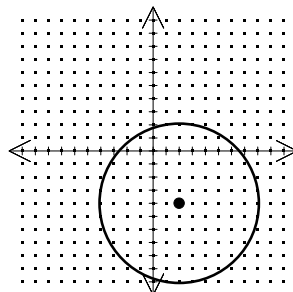
NAME: _____

3. A small messenger company can only deliver in a small part of the city. Write an equation for the boundary where the company delivers, and find its radius.



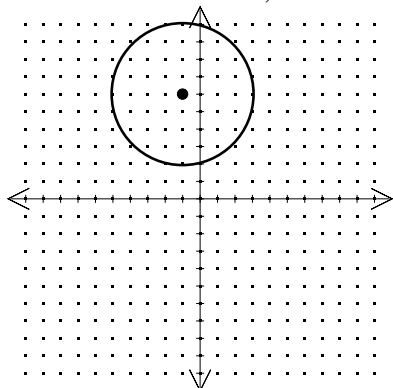
- [A] $(x+2)^2 + (y-1)^2 = 128$; $r = 64$ blocks
 [B] $(x+2)^2 + (y-1)^2 = 128$; $r = 8$ blocks
 [C] $(x+1)^2 + (y-2)^2 = 64$; $r = 64$ blocks
 [D] $(x+1)^2 + (y-2)^2 = 64$; $r = 8$ blocks

4. A small messenger company can only deliver in a small part of the city. Write an equation for the boundary where the company delivers, and find its radius.

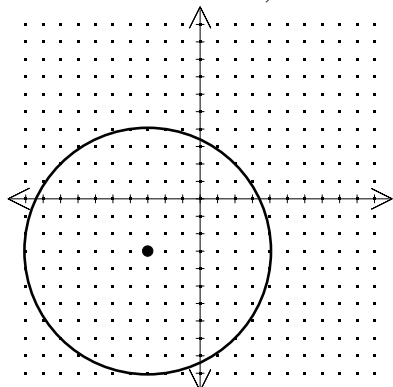


- [A] $(x-2)^2 + (y+4)^2 = 36$; $r = 6$ blocks
 [B] $(x-2)^2 + (y+4)^2 = 36$; $r = 36$ blocks
 [C] $(x-4)^2 + (y+2)^2 = 72$; $r = 36$ blocks
 [D] $(x-4)^2 + (y+2)^2 = 72$; $r = 6$ blocks

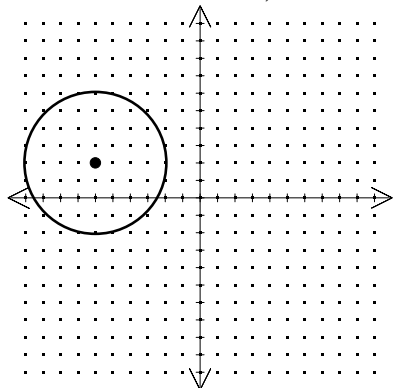
5. A certain low-watt radio station is able to be heard in a small part of the city. Write an equation for the boundary where the radio station can be heard, and find its radius.



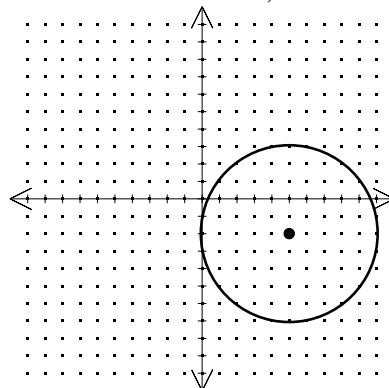
6. A certain low-watt radio station is able to be heard in a small part of the city. Write an equation for the boundary where the radio station can be heard, and find its radius.



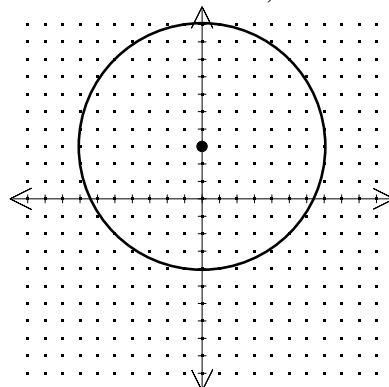
7. A certain low-watt radio station is able to be heard in a small part of the city. Write an equation for the boundary where the radio station can be heard, and find its radius.



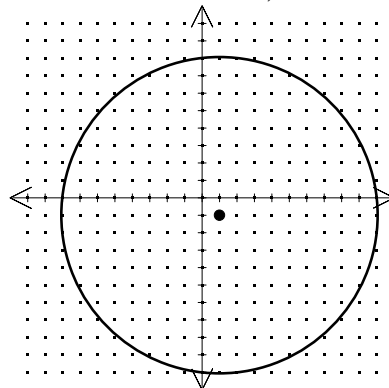
8. A certain low-watt radio station is able to be heard in a small part of the city. Write an equation for the boundary where the radio station can be heard, and find its radius.



9. A certain low-watt radio station is able to be heard in a small part of the city. Write an equation for the boundary where the radio station can be heard, and find its radius.



10. A certain low-watt radio station is able to be heard in a small part of the city. Write an equation for the boundary where the radio station can be heard, and find its radius.



[1] A

[2] C

[3] D

[4] A

[5] $(x+1)^2 + (y-6)^2 = 16$; radius = 4 blocks

[6] $(x+3)^2 + (y+3)^2 = 49$; radius = 7 blocks

[7] $(x+6)^2 + (y-2)^2 = 16$; radius = 4 blocks

[8] $(x-5)^2 + (y+2)^2 = 25$; radius = 5 blocks

[9] $(x)^2 + (y-3)^2 = 49$; radius = 7 blocks

[10] $(x-1)^2 + (y+1)^2 = 81$; radius = 9 blocks