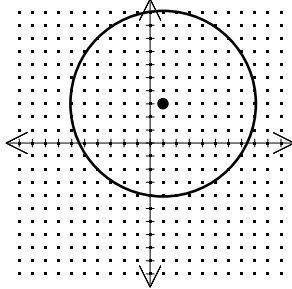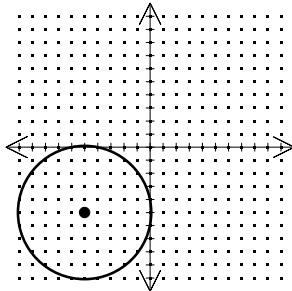NAME:_____

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

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.
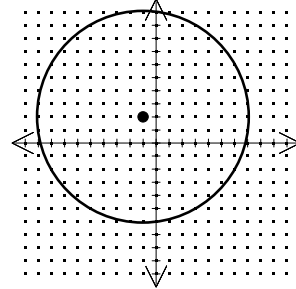

[A] $(x+2)^2 + (y-1)^2 = 128$; $r = 64$ blocks

[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

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.
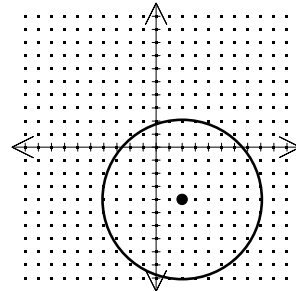

[A] $(x-5)^2 + (y-5)^2 = 50$; $r = 25$ blocks

[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

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

NAME:_____

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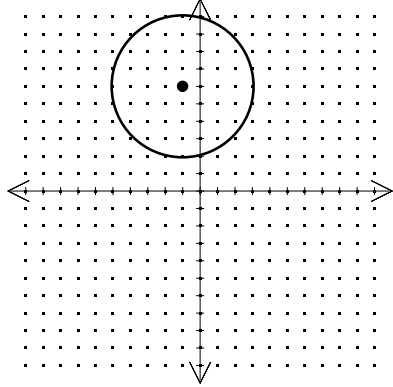
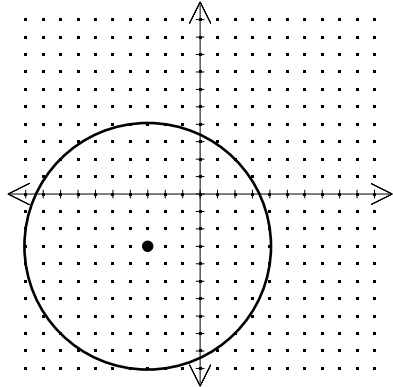8. A certain low-watt radio station is able to be heard in a small part of the city. Write an equation for the boundary where the radio station can be heard, and find its radius.
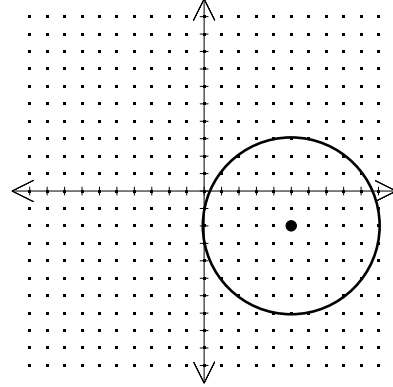
6. A certain low-watt radio station is able to be heard in a small part of the city. Write an equation for the boundary where the radio station can be heard, and find its radius.

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.
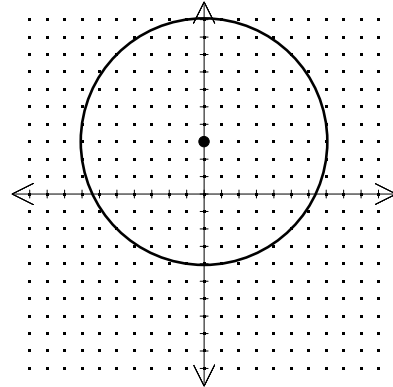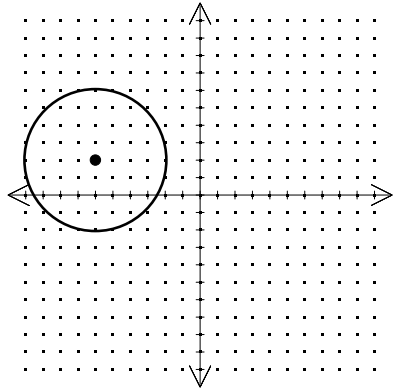

7. A certain low-watt radio station is able to be heard in a small part of the city. Write an equation for the boundary where the radio station can be heard, and find its radius.
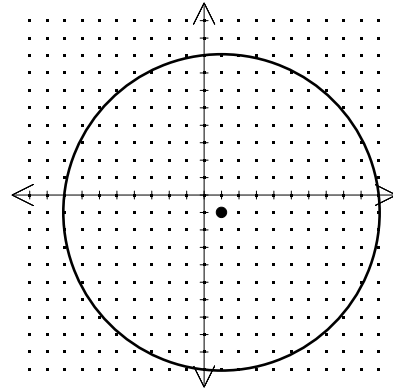

10. A certain low-watt radio station is able to be heard in a small part of the city. Write an equation for the boundary where the radio station can be heard, and find its radius.

[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