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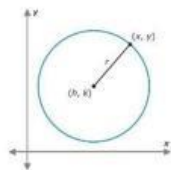
مدرسة الاتحاد الوطنية الخاصة - العين
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Title: Geometry: 15.4 **Circles on the Coordinate Plane**

Instructions: Copy the following questions to your notebook and solve them. Once done submit them on Schoology

Hints:

Equation of a Circle



$$(x - h)^2 + (y - k)^2 = r^2$$

Center at (h, k)

$$\text{Radius} = \sqrt{r^2}$$

Identify the center and radius of each.

1) $x^2 + y^2 = 49$

2) $x^2 + y^2 = 324$

3) $(x + 2)^2 + (y - 3)^2 = 183$

4) $(x + 7)^2 + (y + 8)^2 = 64$

5) $(x + 10)^2 + (y + 9)^2 = 36$

6) $(x + 5)^2 + (y - 10)^2 = 9$

7) $x^2 + (y + 2)^2 = 121$

8) $(x - 14)^2 + (y - 2)^2 = 4$

9) Write the equation of the circle with center $(0, 0)$ and radius 7.

10) Write the equation of the circle with center $(2, 5)$ and radius 4.

11) Write the equation of the circle with center $(-1, -3)$ and radius 9.

12) Write the equation of the circle with center $(6, -2)$ and radius 3.

13) Write the equation of the circle with center $(0, -4)$ and radius 10.

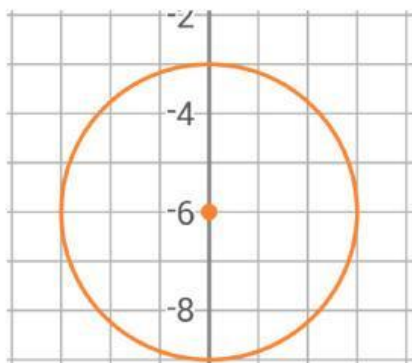
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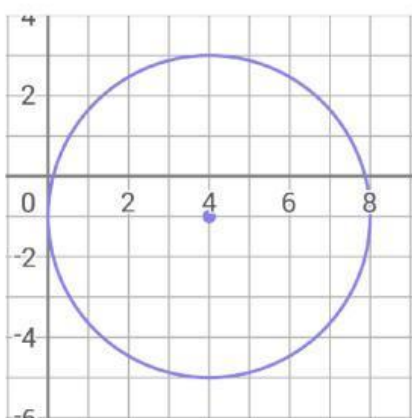


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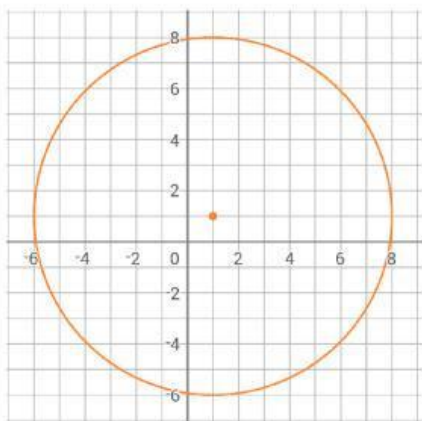
14)



15)



16)



17)

