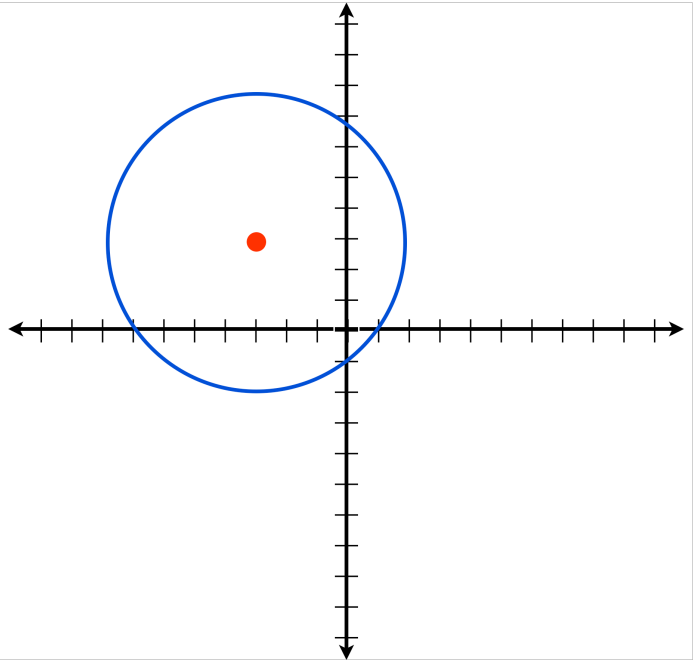


What is a Circle?

Circle - the set of all points that are the same **distance** from a **given point**.

The **given point** is called the **center** of the **circle**.

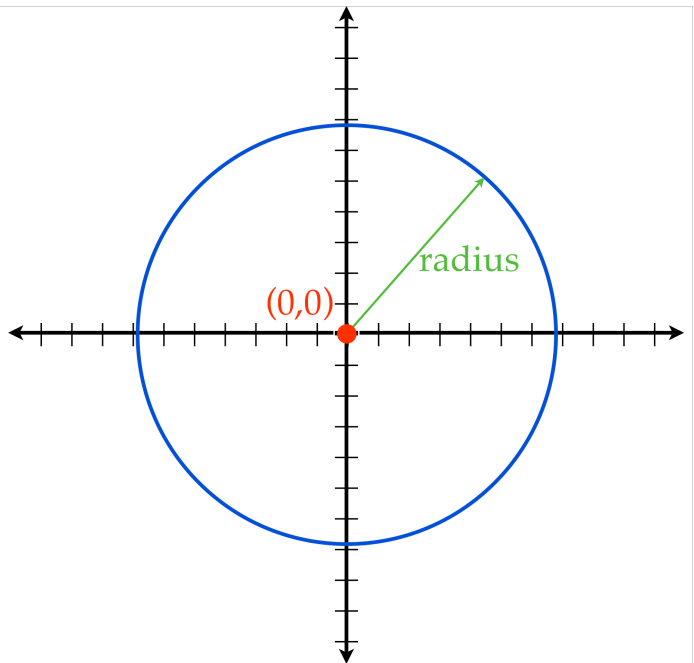
The **distance** from the **center** of the **circle** to any point on the **circle** is the **radius** of the **circle**.



Equation of a **Circle**
with **center** (0,0)

$$x^2 + y^2 = r^2$$

r is the **radius** of the **circle**



Equation of a Circle
with center (h,k)

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

r is the radius of the circle

$$x^2 + y^2 = r^2$$

