**STRAND 4**                           **GRAPHS**
**Sub – Strand 4.1**        **GRAPHS**

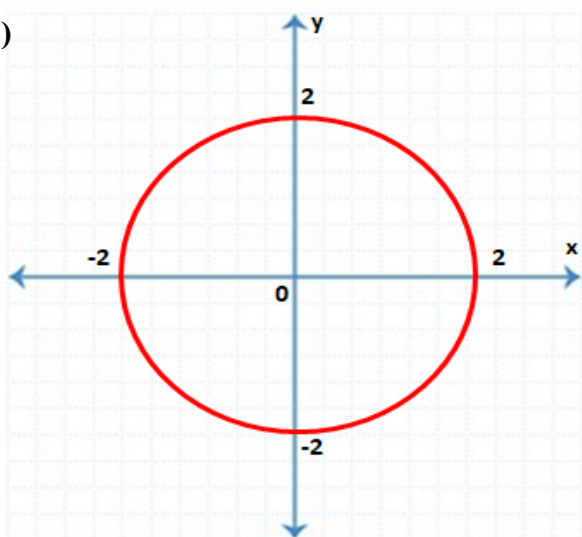---

**Learning Objective**
At the end of this lesson, students should be able to:
- Describe circular graphs

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### Describing Circular Graph

**Example: Find the equation for the following circle.**
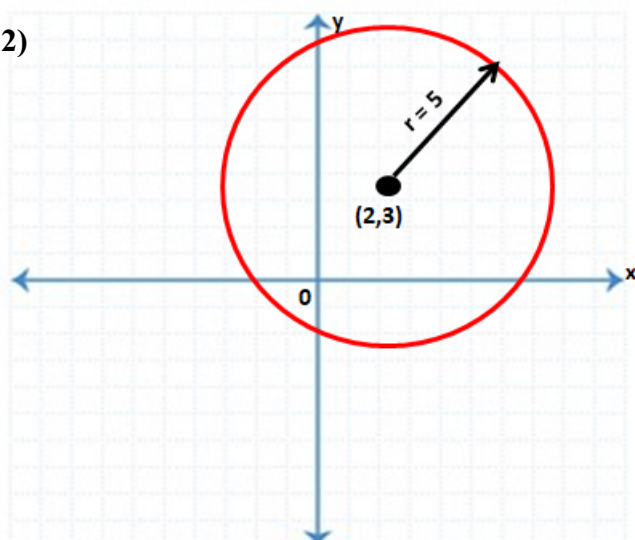
**1)**



Center = (0,0)

Radius = 2

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

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

$\therefore x^2 + y^2 = 4$

**2)**



Center = (a,b)
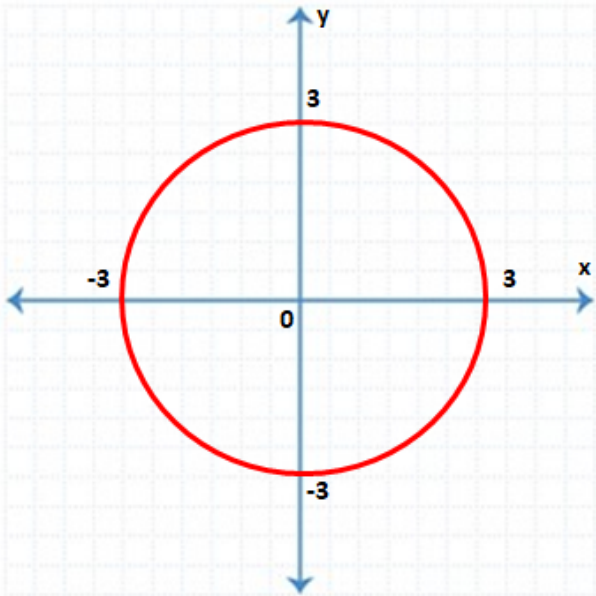
a = 2

b = 3

Radius = 5

$(x - a)^2 + (y - b)^2 = r^2$
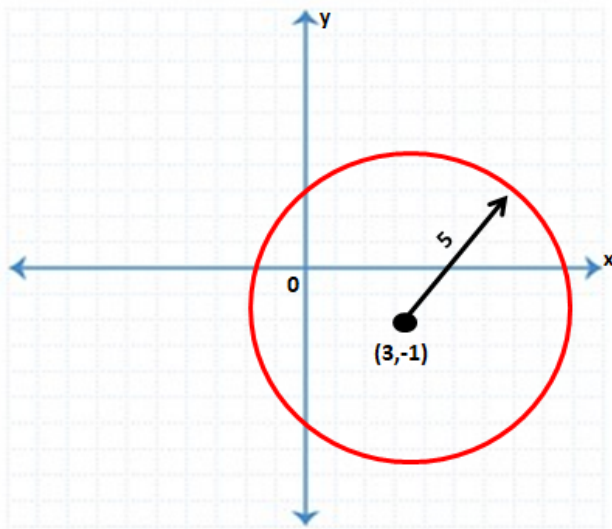
$(x - 2)^2 + (y - 3)^2 = 5^2$

$\therefore (x - a)^2 + (y - b)^2 = 25$

**Exercise:**

1. **Write down the equation of the following circle.**

2. **Write down the equation of the circle in standard form**



**THE END**