

## Equation of a Circle with centre (0, 0)

Course: Grade 10 Mathematics

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The equation of a Circle with centre (0, 0) is:

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

where  $r$  is the radius of the circle.

Write the equation of a circle with centre (0, 0) and a radius of 3.

A circle has equation  $x^2 + y^2 = 25$ . Are the following points inside, on, or outside of the circle?

a) (-3, 4)

b) (-4.4, -2.8)

c) (3.5, 3.3)

Draw the previous example.

