

Centre (2, 2):

Distance from (2, 2) to y-axis
is the radius.

y-axis is $x = 0$

$$\text{or } x + 0y + 0 = 0$$

$$\Rightarrow \text{Radius is } \frac{|1(2) + 0(2) + 0|}{\sqrt{1^2 + 0^2}} = 2$$

$$\Rightarrow \text{Equation of circle, is } (x-2)^2 + (y-2)^2 = 4$$

Centre (-6, 6):

Distance from (-6, 6) to y-axis
is the radius.

y-axis is $x = 0$

$$\text{or } x + 0y + 0 = 0$$

$$\Rightarrow \text{Radius is } \frac{|1(-6) + 0(6) + 0|}{\sqrt{1^2 + 0^2}} = 6$$

$$\Rightarrow \text{Equation of circle, is } (x+6)^2 + (y-6)^2 = 36.$$