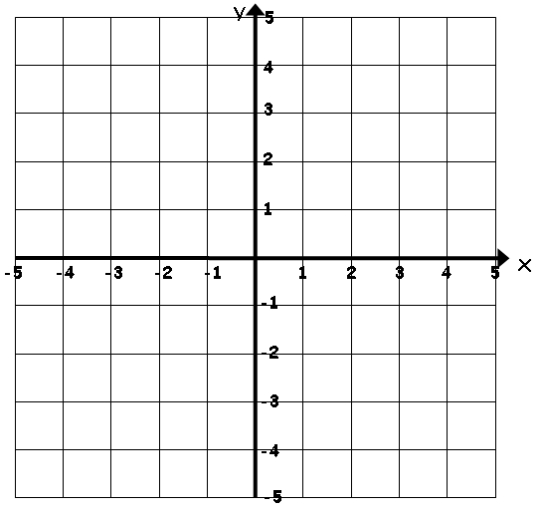
6C Equations of Circles



1. Write down the equation of the circle with centre (5,7) and radius 4

2. Find the coordinates of the centre, and the radius of, the circle with the following equation:

$$(x+3)^2+(y-1)^2=4^2$$

3. Find the coordinates of the centre, and the radius of, the circle with the following equation:

$$\left(x-\frac{5}{2}\right)^2+(y+4)^2=32$$

4. Show that the circle:

$$(x-3)^2+(y+4)^2=20$$

Passes through (5,-8)

5. The line AB is the diameter of a circle, where A and B are (4,7) and (-8,3) respectively. Find the equation of the circle.

6. Find the centre and radius of the circle with equation:

$$x^2+y^2-14x+16y-12=0$$