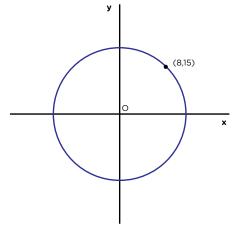
Equation of a Circle GCSE Mathematics HA16



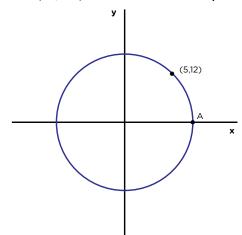
- 1. Write the equation of the circle with a centre at (0, 0) and a radius of 6.
- 2. A circle with its centre at (0, 0) has equation $x^2 + y^2 = 81$. Find the length of its diameter.

3. The diagram shows a circle with centre O and the point (8, 15) which lies on the circle.

Write the equation of this circle.



4. Find the coordinates of the point A knowing that the circle has its centre at (0, 0) and that the point (5, 12) lies on the circle.



Equation of a Circle GCSE Mathematics HA16



5. Find the equation of the tangent to $x^2 + y^2 = 100$ at the point (8, 6).

6. The line y = -2x + 10 is a tangent to the circle $x^2 + y^2 = 20$ at the point P. Find the coordinates of point P.