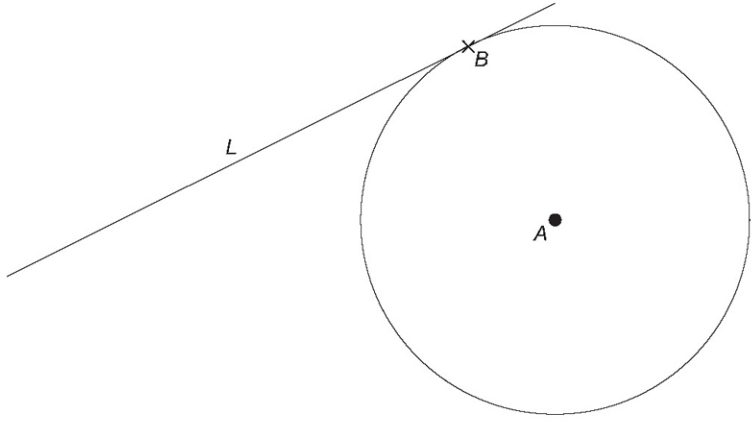
9 A circle has centre A

The tangent to the circle at the point B is the line L

The circle and the line L are shown in the diagram.



The circle has equation $x^2 + y^2 - 20x - 12y = k$, where k is a constant.

The line L has equation $4y - 2x = 29$

9 (a) Find the coordinates of A **[2 marks]**

9 (b) Find the equation of the line that passes through A and B

Write your answer in the form $px + qy = r$ where p, q, and r are integers. **[4 marks]**

9 (c) Hence, or otherwise, find the exact value of the radius of the circle. **[3 marks]**