## AQA, OCR, Edexcel

## GCSE

## GCSE Maths

## Circles and Tangents Exam Questions

Name:

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Total Marks:

## Circles and Tangents Exam Questions

1. Consider the circle with equation $x^{2}+y^{2}=13$ sketched below.

The point A lies on the circle and has a y -coordinate of 2.
The tangent line to the circle at the A intersects the $x^{\text {-axis }}$ at the point B .
Not Drawn
accurately


Find the coordinates of B.
(5 Marks)
2. Consider the circle with equation $x^{2}+y^{2}=25$ sketched below.

The point A Lies on the circle and has a $y$-coordinate of -4 .
The tangent line to the circle at A intersects the $y$-axis at the point B .
Not Drawn
accurately


Work out the coordinates of B.
(5 Marks)
3. Consider the circle with equation $x^{2}+y^{2}=20$ sketched below. The point A lies on the circle and has a $y$-coordinate of -4 .
 The tangent line at A intersects the tangent line at B at point C .

Not Drawn accurately


Work out the coordinates of C .

## (7 marks)

