AQA, OCR, Edexcel

GCSE

GCSE Maths

Circles and Tangents Questions

Name:



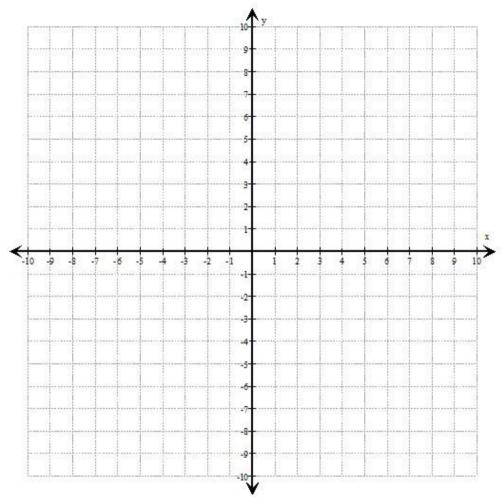
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Total Marks: /18

Circles and tangents

- 1. Answer the following questions on tangents.
- a. On the axis below sketch the graph of

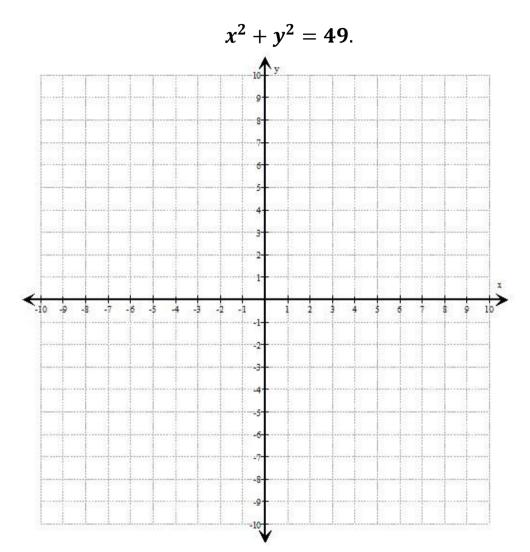
$$x^2 + y^2 = 100.$$



b. Use your sketch from part (a) to help you find the equation of the tangent to $x^2 + y^2 = 100$ at the point (-6, -8).

(4 Marks)

2. On the axis below sketch the graph of



a. Use your sketch of $x^2 + y^2 = 49$ to help you find the equation of the tangent to $x^2 + y^2 = 49$ at the point $(6,\sqrt{13})$.

(4 Marks)

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- 3. Find the equation of the tangent to $x^2 + y^2 = 45$ at the point (-3,6). (3 Marks)
- 4. Find the equation of the tangent to $x^2 + y^2 = 113$ at the point (-8,-7). (3 Marks)
- 5. Find the equation of the tangent to $x^2 + y^2 = 50$ at the point $(2\sqrt{5}, -\sqrt{30})$. (4 Marks)