

# C1 Extension Questions 5 Coordinate Geometry Additional Questions For Core Mathematics 5 Coordinate Geometry Core 1 Extension Questions

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**COORDINATE GEOMETRY Answers - Worksheet D**

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**INTRODUCTION TO ADVANCED MATHEMATICS, C1**

**C1 Extension Questions 5 Coordinate**

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C1 COORDINATE GEOMETRY Answers - Worksheet D 1 a grad 1 = ? 2 a grad = 53 71 + ? = 4 3 ...

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Mathematics Revision Guides - Coordinate Geometry - Circles Page 3 of 15 Author: Mark Kudlowski The example on the right has its centre at the point (3, 4) and a radius of 5 units. Using Pythagoras, we can show that the origin is on the circle's circumference. . The example above illustrates a general formula:

**Coordinate Geometry - Circles**

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Co-ordinates - key stage 2 sats questions organised by levels 3, 4, 5 and 6. Mark scheme and notes also added as an additional file. Word files for easy editing.

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The coordinates of B are (9, 4). Let C be the intersection point of and Substituting into gives  $7(11 - 3) = 37 - 77 = 21 - 37 = -16$   $20 - 2x = 11 - 3 - 2x = 8 - 2x$  When  $x = 2$ ,  $y = 11 - 3 - 2(2) = 5$  The coordinates of C are (2, 5). The vertices of the triangle are (3, 2), (9, 4) and (2, 5).

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This section looks at Coordinate Geometry. The Distance Between two Points. Draw a line between the two points. Complete a right angle triangle and use Pythagoras' theorem to work out the length of the line. Between points A and B:  $AB^2 = (B_x - A_x)^2 + (B_y - A_y)^2$  The Midpoint of a Line Joining Two Points

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