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Mei Core 1 Coordinate Geometry

MEI Core 1 Coordinate Geometry Questions Jan 05 - May 09 3 A line has equation $3x + 2y = 6$. Find the equation of the line parallel to this which passes through the point (2, 10).

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MEI Core 1 Coordinate Geometry - The Student Room

Core 1 © MEI, 2004 Chapter assessment Coordinate Geometry 1. Find the coordinates of the points where the line $52100yx++=$ meets the axes and hence sketch the line. 2. Describe fully the curve whose equation is $xy22+=4$. 3. The coordinates of two points are A(-1,-3) and B(5,7). Calculate the equation of the perpendicular bisector of AB. 4.

Core 1 Chapter assessment Coordinate Geometry

Core 1 Coordinate Geometry Answers 2 The point A has coordinates (l, l) and the point B has coordinates (5, k). The line AB has equation $3x + 4y = 7$. (1 mark) (2 marks) (2 marks) (2 marks) (1 mark) (2 marks) (a) (b) (c) (i) Show that $k =$ (ii) Hence find the coordinates of the mid-point of AB.

Core 1 Coordinate Geometry Questions - PMT

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C1 Coordinate Geometry - Straight Lines 5 QP C1 Curve Sketching - Factorising & Sketching Polynomials 1 MS C1 Curve Sketching - Factorising & Sketching Polynomials 1 QP

C1 Questions by Topic - Maths A-level - Physics & Maths Tutor

Midpoint = $[\frac{1}{2}(3 + 1), \frac{1}{2}(2 + 1)] = (2, 1.5)$ The Gradient of a Line Joining Two Points. The gradient of a line joining points (x 1, y 1) and (x 2, y 2) is $(y 2 - y 1)/(x 2 - x 1)$. Parallel and Perpendicular

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Lines. If two lines are parallel, then they have the same gradient. If two lines are perpendicular, then the product of the gradients of ...

Coordinate Geometry - Mathematics A-Level Revision

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Core 1 - Coordinate Geometry (1) - Introduction to straight line equations

Core 1 Chapter assessment Coordinate Geometry 1. Find the coordinates of the points where the line $5y + 2x + 10 = 0$ meets the axes and hence sketch the line. 2. Describe fully the curve whose equation is $x^2 + y^2 = 4$. 3. The coordinates of two points are A(-1,-3) and B(5,7). Calculate the equation of the perpendicular bisector of AB. 4.

Chapter assessment - MAFIADOC.COM

Core 1 The midpoint M of AB is found by using $M = \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$. You are given A(1, -3) and B(9, 1) so M is $\left(\frac{1 + 9}{2}, \frac{-3 + 1}{2} \right) = (5, -1)$ The perpendicular bisector is found using $y - y_1 = m(x - x_1)$ with $(x_1, y_1) = (5, -1)$ and $m = -2$. so $y - (-1) = -2(x - 5) \Rightarrow y + 1 = -2x + 10 \Rightarrow y = -2x + 9$ (equation l) The gradient of BC is $\frac{1 - 3}{4 - 3} = -2$

Core 1 - European School, Luxembourg I

1.2.1 Parallel and perpendicular lines; 1.3 Distance between two points; 1.4 Mid-point of a line; 1.5 Intersection of lines; 2 Curves. 2.1 Curves in the form $y = ax^2 + bx + c$; 2.2 Curves in the form $x = ay^2 + by + c$; 2.3 Intersection of lines and curves; 2.4 Intersection of curves; 3 The circle. 3.1 Equation of the circle; 3.2 Circle geometry

A-level Mathematics/MEI/C1/Co-ordinate Geometry ...

1 y x A B O Fig. 11 Fig.11 shows the line through the points A(-1, 3) and B(5, 1). (i) Find the equation of the line through A and B. [3] (ii) Show that the area of the triangle bounded by the axes and the line through A and B is $\frac{32}{3}$ square units. [2] (iii) Show that the equation of the perpendicular bisector of AB is $y = 3x - 4$. [3] (iv) A circle passing through A and B has its centre on ...

Fig. 11

View c1cass.pdf from MATH 1156 at Federal Govt. College Cantonment Hyderabad. MEI Core 1 Coordinate Geometry Chapter assessment Do not use a calculator in this test. 1. A line l1 has equation $5y + 4$

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(ii) Show that the point P(-4, -1) lies on the circle. (iii) Find the equation of the tangent at P. (iv) The line $xy = 3$ meets the circle at two points, Q and R. Find the coordinates of Q and R. (v) Find the coordinates of the point, S, where the tangent at P intersects the line .

AQA Core 1 Coordinate geometry Section 2: Circles

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Coordinate Geometry Unit 1 Multiple Choice Test. Core 1 © MEI, 2004 Coordinate geometry, section 1 Multiple choice test solutions.

http://www.euroschool.lu/luxschool/maths/year5/compo/coordgeom/multi_choice_test_1.pdf read more.

Mei Multiple Choice Test Answers

When $y = 1$, $x = -\frac{4}{5}$ When $y = 7$, $x = \frac{4}{5}$ so P is (8, 1) and Q is (-4, 7) Length PQ $(8 - (-4))^2 + (1 - 7)^2 = 144 + 36 = 180 \Rightarrow \sqrt{180} = 6\sqrt{5}$. (i) Gradient of PR $\frac{7 - 1}{-4 - 8} = -\frac{6}{12} = -\frac{1}{2}$ Gradient of QR $\frac{1 - 7}{8 - (-4)} = -\frac{6}{12} = -\frac{1}{2}$ Gradient of PR \times gradient of QR $= \frac{1}{4}$ so PR and QR are perpendicular. (ii) The angle in a semicircle is 90° , so PQ must be a diameter.

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