

A Level Maths - Paper 1 - 2023 Mark Scheme

No. ph	Question	Answer	Marks
1	$\int \frac{\sqrt{x(2x-5)}}{3} dx$	$\frac{4}{15}x^{\frac{5}{2}} - \frac{10}{9}x^{\frac{3}{2}} + C$	4
2	$f(x) = 4x^3 + 5x^2 - 10x + 4a$ a) Given that $(x - a)$ is a factor of $f(x)$ Find the value of a b) Solve $f(x) = 3$	$a = \frac{3}{4}$ $x = 0, \frac{-5 \pm \sqrt{185}}{8}$	3
3	$a = \log_2 x$ $b = \log_2(x + 8)$ Write the following in terms of a and b : a) $\log_2 \sqrt{x}$ b) $\log_2(x^2 + 8x)$ c) $\log_2(8 + \frac{64}{x})$	a) $\frac{1}{2}a$ b) $a + b$ c) $3 + b - a$	a) 1 b) 2 c) 3 Total: 6
4)	a) Prove the distance of OA is $\sqrt{38}$ b) Find min value of a given $ OB > OA $	b) $a > 3\sqrt{2}$, but a is an integer so $a = 5$	a) 1 b) 2 Total: 3
5	a) Find α b) $f(x) \equiv -1/2 \cos x = 0$	$\alpha = -0.24...$ $y = \frac{1}{2}x + 3$	a) 3 b) 2 Total: 5
6	a) i) Find the centre of the circle ii) Find the radius b) range of values values for k	a) i) $C(-3k, k)$ ii) $r = \sqrt{10k^2 - 7}$ b) $k < 7 - \sqrt{85}$ or $k > 7 + \sqrt{85}$	a) 3 b) 6 Total: 9

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P. Ledger



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GCSE Maths Edexcel Student Book - Higher, 2021-10-08 This superb CGP in depth Student Book covers everything you need to succeed in Edexcel 9 1 GCSE Maths It s packed with detailed accessible notes backed up with fully worked examples Practice questions and exam style questions are included throughout complete with worked solutions Each section is rounded off with a review exercise perfect for recapping all of the content pupils have learnt We ve even included handy references to the Edexcel specification and learning objectives so you know exactly which bits of the spec are covered by each part of the book *Oxford Revise: Edexcel GCSE Maths Higher* Naomi Bartholomew-Millar,Paul Hunt,Victoria Trumper,2024-10-10 Oxford Revise Edexcel GCSE Higher Maths provides you with all the key information that you need to revise and covers the full specification Each topic in your Edexcel Higher Maths course is clearly covered Extra tailored support will help you build your confidence with the Higher level Maths concepts that you need to know to do well in the exam By working through the Knowledge Retrieval Practice sections you will be using proven ways to revise check and recall so that what you revise sticks in your memory Knowledge Organisers cover the key information that you need to revise in manageable chunks for your Edexcel Higher Maths exam Worked example questions and solutions tailored to the Higher specification illustrate concepts and show how to work through and answer questions An online glossary helps you to learn the definitions to key terms Retrieval questions give you opportunities to check that you have learned and can remember the knowledge before you practise exam style questions Regularly checking that you can retrieve prior knowledge helps you to ensure that you don t forget the knowledge and combat the forgetting curve Exam style Practice gives you opportunities to practise the type of questions you will encounter in your exams with all the answers to practice questions plus a mark scheme available online **Edexcel A Level Maths: Year 1 + Year 2 Mechanics Student Workbook** Steve Cavill,2018-12-13 This Student Workbook provides supplementary support and practice for the statistics topics in Edexcel s linear specification Designed to work alongside the Oxford AS and A Level Student Books this Workbook offers both focussed revision sections and exam style practice The revision sections provide quick recaps and highlight common exam errors The exam style practice questions offer full coverage of the Assessment Objectives including the new emphasis on problem solving and modelling With guidance on Edexcel s Large dataset this Workbook provides realistic practice for the actual exam Answers are in the back of the book with full step by step solutions provided online The 2017 A Level specification contains 100% prescribed content meaning statistics has become mandatory for the first time since 2000 This Workbook is the perfect course companion for both the confident and less confident statisticians [The Times Index](#),2002 Indexes the Times and its supplements [Edexcel AEA](#), Edexcel,2004 **4-Speed Revision for Edexcel Gcse Maths Linear Higher** Keith Pledger,Gareth Cole,Peter Jolly,Graham Newman,2007-11-14 Features exam style practice papers written by examiners This title includes examples with step by step worked solutions highlighting common errors and giving examiners tips It

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