

AQA GCSE Further Maths – Practice Questions (Set 2)

1. Expand and simplify:

$$(x - 4)(x + 2)$$

2. Solve the equation:

$$x^2 + 4x - 21 = 0$$

3. Factorise completely:

$$2x^2 - 8x$$

4. Solve the simultaneous equations:

$$3x - y = 4$$

$$x + y = 10$$

5. Find the midpoint of the line segment joining (2, 3) and (8, 7)

6. Rearrange the formula to make x the subject:

$$y = x^2$$

7. Rationalise the denominator:

$$5 / (\sqrt{3} - 1)$$

8. Find the value of $\cos(60^\circ)$

9. Simplify the expression:

$$(4a^2b) \times (3ab^2)$$

10. Solve for x :

$$2^x = 32$$

11. Calculate the area of a trapezium with bases 5 cm and 9 cm, height 4 cm

12. Express 84 as a product of its prime factors

13. Use Pythagoras' Theorem to find the missing side given hypotenuse 10 cm and one leg 6 cm

14. Calculate the surface area of a sphere with radius 5 cm

15. Complete the square:

$$x^2 - 10x + 25$$

16. Write down the equation of a line perpendicular to $y = -2x + 3$ through point (0, -4)

17. Expand and simplify:

$$(x + 1)^2 - (x - 2)^2$$

18. Solve the inequality:

$$4 - 3x > 1$$

Aqa Further Maths Gcse

Michael Ling

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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A Level Further Mathematics for AQA Student Book 1 (AS/Year 1) Paul Fannon, 2017-09-28 New 2017 Cambridge A Level Maths and Further Maths resources to help students with learning and revision Written for the AQA AS A Level Further Mathematics specifications for first teaching from 2017 this print Student Book covers the compulsory content for AS and the first year of A Level It balances accessible exposition with a wealth of worked examples exercises and opportunities to test and consolidate learning providing a clear and structured pathway for progressing through the course It is underpinned by a strong pedagogical approach with an emphasis on skills development and the synoptic nature of the course Includes answers to aid independent study This book has entered an AQA approval process *A Level Further Mathematics for AQA*

Mechanics Student Book (AS/A Level) Jess Barker, Nathan Barker, Michele Conway, Janet Such, 2017-11-23 New 2017 Cambridge A Level Maths and Further Maths resources to help students with learning and revision Written for the AQA AS A Level Further Mathematics specification for first teaching from 2017 this print Student Book covers the Mechanics content for AS and A Level It balances accessible exposition with a wealth of worked examples exercises and opportunities to test and consolidate learning providing a clear and structured pathway for progressing through the course It is underpinned by a strong pedagogical approach with an emphasis on skills development and the synoptic nature of the course Includes answers to aid independent study This book has entered an AQA approval process *Further Maths Practice Book* Trevor Senior, 2013-02-25 Aimed at Level 2 maths work and suitable to support the AQA Level 2 Certificate in Further Mathematics Guide students through higher level maths work with this handy practice book featuring short topic explanations worked examples and loads of graded practice exercises that will stretch and challenge Introduce new concepts with ease with explanations key reminders and worked examples for each topic Consolidate learning with lots of brand new graded exercises written by established Collins author Trevor Senior Challenge your most able students with questions that tackle the new A with Distinction grade Prepare students for their exams with challenging problem solving and exam style questions Answers online [New Grade 9-4 AQA Level 2 Certificate: Further Maths - Revis](#), 2018-12-17 **AQA Level 2**

Certificate Further Maths Complete Study and Practice (5-9) Trevor Senior, 2022-02-11 Exam board AQA Level GCSE Level 2 Subject Maths First teaching 2018 First exam 2020 **AQA Level 2 Certificate in Further Mathematics: Exam Practice** Val Hanrahan, Andrew Ginty, 2019-11-29 **AQA Certificate in Further Mathematics** David Pritchard, Val Hanrahan, Roger Porkess, 2013-01-25 Motivates and challenges more able students by providing more complex introductions worked examples and exercises for all topics This specification is ideal for students to prepare for A level mathematics A range of algebraic and geometric topics are covered and it provides an introduction to Matrices and Calculus Written by experienced teachers this book Offers complete support for students throughout the course as it is an exact match to this new specification Includes an introduction to each topic followed by worked examples with commentaries Provides plenty of

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