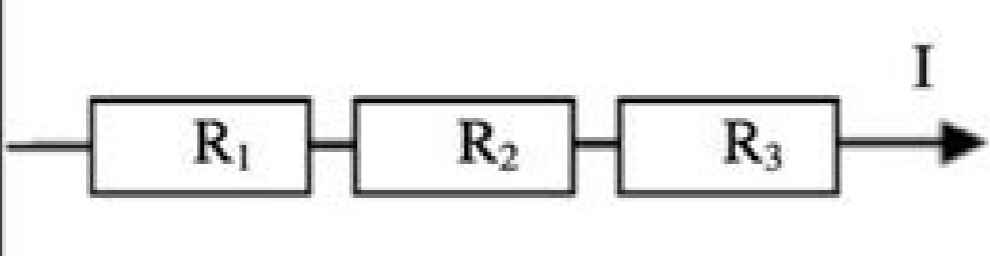
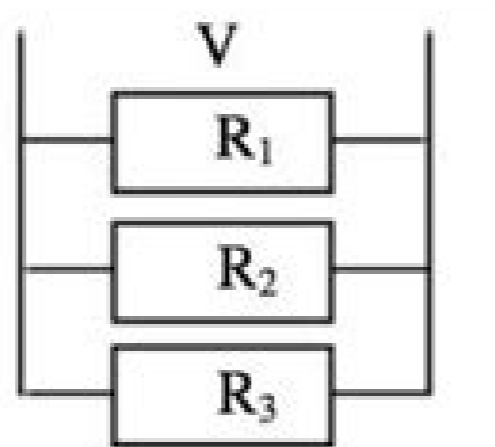


I'm not robot!

Current of Electricity

Current $I = Q / \Delta t$	Current = rate of flow of charges Q = Charge t=time
Ohm's Law Resistance $R = V / I$	V = voltage, R = resistance I = current
Resistance of a wire $R = \rho L / A$	ρ = resistivity L = length of wire A = cross sectional area

D.C. Circuits

Kirchoff's 1st Law $\sum I_{in} = \sum I_{out}$	Conservation of charges. $\sum I_{in}$ = Sum of current going into a junction $\sum I_{out}$ = Sum of current going out of a junction
Kirchoff's 2nd Law $\sum V = E.M.F$	$\sum V$ = Sum of potential difference V across all components in a circuit E.M.F = Voltage supplied by the power supply.
Resistance in Series $R_{total} = R_1 + R_2 + R_3$	
Resistance in Parallel $\frac{1}{R_{total}} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$	

Simplifying algebraic fractions

$$\frac{x^2 + 2x - 8}{x^2 + 7x + 12} \quad \text{Factorise and cancel!} \quad \frac{(x-2)(x+4)}{(x+3)(x+4)}$$

$$= \frac{x-2}{x+3}$$

Dividing algebraic fractions

$$\frac{x^2 - 4}{20y^4} \div \frac{3x + 6}{16y^2} \quad \text{Factorise} = \frac{(x+2)(x-2)}{20y^4} \div \frac{3(x+2)}{16y^2}$$

Flip the second fraction and multiply

$$\frac{(x+2)(x-2)}{20y^4} \times \frac{16y^2}{3(x+2)} = \frac{4(x-2)}{15y^2}$$

Addition of algebraic fractions

$$\frac{3}{x^2 + 7x - 30} + \frac{5}{x^2 - 100} \quad \text{Factorise} = \frac{3}{(x-3)(x+10)} + \frac{5}{(x+10)(x-10)}$$

Common denominator

$$\frac{3(x-10)}{(x-3)(x+10)(x-10)} + \frac{5(x-3)}{(x-3)(x+10)(x-10)}$$

combine

$$= \frac{3x - 30 + 5x - 15}{(x-3)(x+10)(x-10)}$$

$$= \frac{8x - 45}{(x-3)(x+10)(x-10)}$$



Further Maths GCSE FM - Ultimate Revision Guide (Co-ord Geometry)

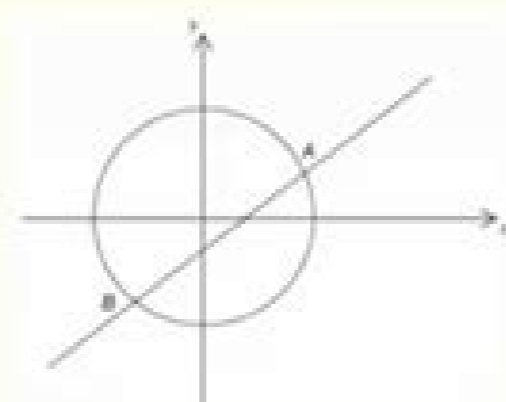
3.7 & 3.8 Equation of a circle Index

Understand that the equation of a circle, centre (0, 0), radius r is $x^2 + y^2 = r^2$

Understand that $(x - a)^2 + (y - b)^2 = r^2$ is the equation of a circle with centre (a, b) and radius r

Examples

- The equation of a circle is $x^2 + y^2 = 2$
 - Write down the coordinates of the centre of the circle.
 - Write down the exact value of the radius of the circle.
- Write down the equation of a circle, centre (0, 0) and radius 5.
- The circle $x^2 + y^2 = 10$ and the line $y = x - 2$ intersect at points A and B as shown. Work out the length of the chord AB.



Practice Questions

FM - Ultimate Revision Guide (Algebra)

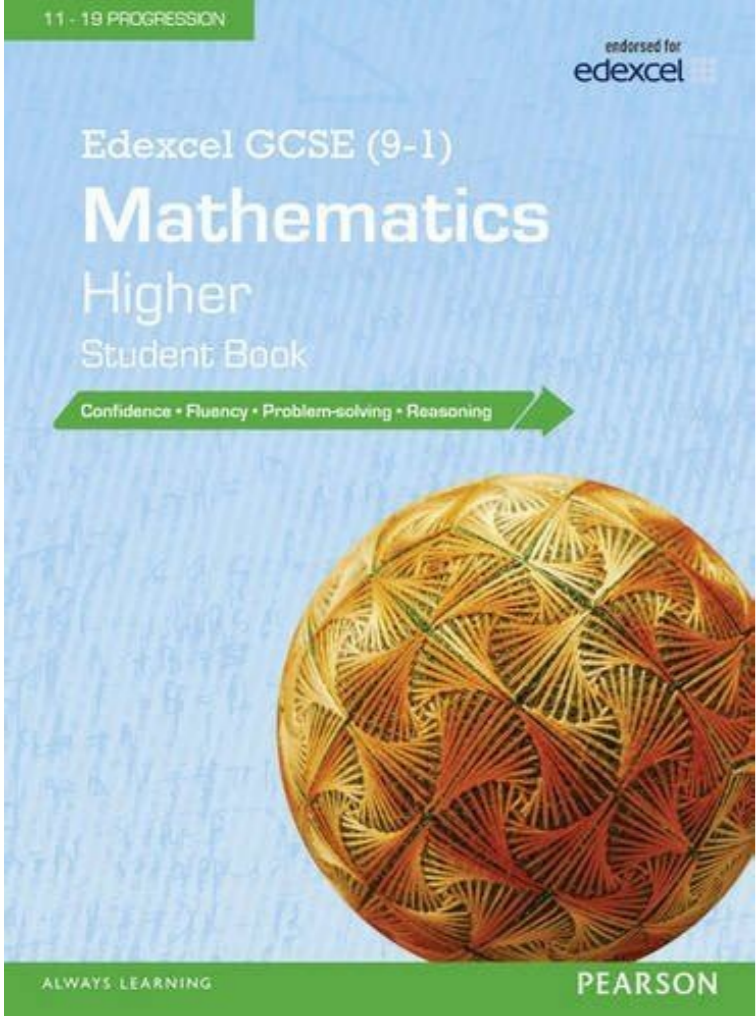
1. Factorise $2x^2 + 7x + 3$

2. Solve $x^2 - 4 = 0$

3. Simplify $\frac{x^2 - 4}{x^2 + 7x + 12}$

4. Divide $\frac{x^2 - 4}{20y^4} \div \frac{3x + 6}{16y^2}$

5. Add $\frac{3}{x^2 + 7x - 30} + \frac{5}{x^2 - 100}$



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Past Papers of : Cambridge IGCSE | Mathematics %280580%29 CAIE October/November 2022 Session Starts 05th Update(s): 17/06/2022 NEW! March 2022 papers for most subjects are available now! 15/01/2022 Papers for November 2021 session are available now! 27/10/2021 Papers for July/August 2021 series held in Pakistan are available now! If any paper is still missing, please report using the Contact Us! tab. Click the image to view. Concise and reliable study notes â€” perfect for catching up and achieving your best grades in 2022 and 2023. Our Higher Level GCSE Maths Revision Guide for the AQA course is packed with concise, student-friendly explanations of every topic, backed up with plenty of step-by-step examples, in CGP's clear informal and (dare we say) humorous style. We've also included helpful grade stamps to show the difficulty level of each topic, alongside plenty of exam-style questions with answers at the back! QR codes throughout give quick and easy access to worked video solutions from our in-house experts, plus a selection of challenging online quizzes! A unique code in the front of the book gives you access to the free Online Edition of the whole book on your PC, Mac or tablet. From here, you can also view/print full step-by-step answers to all the exam-style questions! ProvidingOfQual ApprovedQualifications Proudly supporting © 2022 MathsMadeEasy. When you visit or interact with our sites, services or tools, we or our authorised service providers may use cookies for storing information to help provide you with a better, faster and safer experience and for marketing purposes.

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