

Mathematical Object	Properties and Examples	Geometric Interpretation	Applications
Vector Space	Set of vectors with operations of addition and scalar multiplication.	Linear combinations, projections, orthogonality.	Signal processing, machine learning, quantum mechanics.
Euclidean Space	Set of points with a metric and a coordinate system.	Distance, angle, area/volume.	Robotics, computer graphics, physics.
Manifold	Space that is locally Euclidean.	Curvature, topology.	General relativity, differential geometry.
Graph	Set of nodes with edges connecting them.	Path, cycle, connectivity.	Network analysis, social media, recommendation systems.
Probability Space	Space of possible outcomes with a probability measure.	Random variables, expectation.	Finance, statistics, machine learning.
Measure Space	Space equipped with a measure.	Integration, Lebesgue measure.	Lebesgue integration, probability theory.
Metric Space	Space with a metric.	Distance, topology.	Geometric analysis, topology.
Topological Space	Space with a topology.	Continuity, compactness.	General topology, algebraic topology.
Algebraic Structure	Set with operations satisfying certain axioms.	Group, ring, field.	Abstract algebra, number theory.
Order Structure	Set with a total or partial order.	Monotonicity, convergence.	Real analysis, optimization.
Calculus	Study of change and motion.	Derivative, integral.	Physics, engineering, economics.
Linear Algebra	Study of linear transformations and vector spaces.	Matrix, eigenvalue.	Machine learning, quantum mechanics.
Abstract Algebra	Study of algebraic structures.	Group, ring, field.	Abstract algebra, number theory.
Geometry	Study of shapes and spatial relationships.	Euclidean geometry, non-Euclidean geometry.	Robotics, computer graphics, physics.

Relationships	Relationships	Relationships	Relationships
Relationships of the form $y = kx$ or $y = kx + c$ are called proportional relationships.	Relationships of the form $y = kx^2$ or $y = kx^3$ are called quadratic relationships.	Relationships of the form $y = kx^m$ or $y = kx^m + c$ are called power relationships.	Relationships of the form $y = kx^n$ or $y = kx^n + c$ are called exponential relationships.
Relationships of the form $y = kx$ are proportional relationships.	Relationships of the form $y = kx^2$ are quadratic relationships.	Relationships of the form $y = kx^m$ are power relationships.	Relationships of the form $y = kx^n$ are exponential relationships.
Relationships of the form $y = kx + c$ are non-proportional relationships.	Relationships of the form $y = kx^3$ are non-quadratic relationships.	Relationships of the form $y = kx^m + c$ are non-power relationships.	Relationships of the form $y = kx^n + c$ are non-exponential relationships.
Relationships of the form $y = kx$ are linear relationships.	Relationships of the form $y = kx^2$ are quadratic relationships.	Relationships of the form $y = kx^m$ are power relationships.	Relationships of the form $y = kx^n$ are exponential relationships.
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Revision Notes

Extremepapers Core Mathematics Revision Notes

Paul Anthony McLaughlin

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Mathematics Revision Notes Paul Anthony McLaughlin,1973 *Standard Grade Maths Revision Notes* Morvyth C. Davis,2000-01-01 Addresses main Knowledge and Understanding topics at General and Credit Worked examples develop understanding and illustrate problem solving techniques Includes essential information and tip boxes with advice and formulae students really need to know Credit material is clearly marked for differentiated revision Revision Notes for Standard Grade Mathematics Andrew Sinclair,1996-09 *Mathematics Revision Notes, Forms 1, 2, 3* Paul Anthony McLaughlin,1984 **School Certificate New Maths Revision Notes** Paul Anthony McLaughlin,James William McLaughlin,198? My Revision Notes: Edexcel A Level Maths (Applied) Stella Dudzic,Rose Jewell,2019-01-28 Exam board Edexcel Level A level Subject Mathematics First teaching September 2017 First exams Summer 2018 Target success in Edexcel A Level Mathematics with this proven formula for effective structured revision key content coverage and plentiful worked examples are combined with exam style and multiple choice questions to create a revision guide that students can rely on to review strengthen and test their knowledge Help develop the key skills needed for success with skills focused questions around problem solving proof modelling and the use of ICT spreadsheets graphing software and graphing calculators Strategically target revision with diagnostic questions to establish which areas need focus Get assessment ready with exam style questions and advice on common examination pitfalls Embed knowledge and identify weaknesses with hundreds of multiple choice Test Yourself questions all carefully written to elicit misconceptions full worked solutions online offer detailed instructive explanations for all choices whether they are correct or incorrect Consolidate revision with summaries for each topic that focus on what to concentrate on in the build up to exams with special focus on common pitfalls such as how to show correct workings Access answers at the back of the book with detailed step by step worked solutions for ALL questions available for free online Includes all Year 1 and Year 2 A level Maths content Maths Revision Notes Morvyth Davis,1993 **Mathematics Revision Notes, Form 5** Paul Anthony McLaughlin,1980 **Key Stage 1 Mathematics** Penny Coltman,Jayne Greenwood,Valerie Mitchell,1999 *Revision Notes for Advanced Level Applied Mathematics* Ronald Frederick West Hunter,1967 **Revision Notes for Higher Mathematics** Andrew Sinclair,1999-08-01 **University Entrance New Maths** James William McLaughlin,Paul Anthony McLaughlin,1974 **Revision Notes for Ordinary Level Mathematics** Eric De Ville,1963 My Revision Notes: Edexcel Year 1 (AS) Maths (Pure) Sophie Goldie,2018-06-04 Exam board Edexcel Level A level Subject Mathematics First teaching September

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