

EXTENSION 1

Stage 6

Calculus (EXT1), C1 Rates of Change (Y11)

Related Rates of Change (EXT)

Rates of Change with respect to time (EXT)

Teacher: Christy Cheung

Exam Equivalent Time: 175.5-minutes (based on allocation of 1.5 minutes per mark)



C1 Rates of Change



"SmartMaths analysis based on the average contribution to Extension 1 exams since 2000"

HISTORICAL CONTRIBUTION

- C1 Rates of Change has contributed 4.0% per new syllabus Ext1 exam since it was introduced in 2000.
- This topic has been split into three sub-categories for analysis purposes which are: 1-Growth and Decay (3.4%), 2-Motion and Time (0.6%), and 3-Related Rates of Change (0.0%).
- This analysis looks at Related Rates of Change.

HSC ANALYSIS - What to expect and common pitfalls

- Related Rates of Change (3.4%) has been examined in 2 out of 4 new syllabus exams, below in the longer answer section.
- Allocated marks in new syllabus exams are below this topic's historical average. Notwithstanding this, effective revision should include high mark "old syllabus" examples which are well represented in the database.
- 2023 Ext1 12a combined this topic with differential equations in an extremely challenging "must reverse" question.
- The toughest examination of this topic was between 2011-2013 where sub-50% mean marks resulted each year. Any revision should include these examples.
- The most popular underlying subject matter of recent past questions is earth rotating areas/volumes (2 times) and Pythagoras (twice) (4 times).
- Markov's comments have flagged that students can often achieve half-marks by simply stating a correct chain rule and that students who draw diagrams in their solution are more successful. Good advice. Follow it.
- Pitfalls: The use of non-right angled triangles in this context was examined in 2012 and poorly answered. Not tested again since and worthy of a mention for us.
- If a constant rate of change is established, students have struggled with follow up questions in 2013 Ext1 12a and 2000 Ext1 15a. A red-flagged knowledge gap worthy of attention.

4. Calculus, EXT1* C1 2013 HSC 10 MC

A particle is moving along the x -axis. The displacement of the particle at time t seconds is s metres.

At a certain time, $s = -3 \text{ m s}^{-1}$ and $\frac{ds}{dt} = 2 \text{ m s}^{-2}$.

Which statement describes the motion of the particle at that time?

- The particle is moving to the right with increasing speed.
- The particle is moving to the left with increasing speed.
- The particle is moving to the right with decreasing speed.
- The particle is moving to the left with decreasing speed.

5. Calculus, EXT1 C1 EQ-Bank 12

A tank is initially full. It is drained so that at time t seconds the volume of water, V , in litres, is given by

$$V = 50 \left(1 - \frac{t}{100} \right)^2 \quad \text{for } 0 \leq t \leq 100$$

- How much water was initially in the tank? (1 mark)
- After how many seconds was the tank completely full? (1 mark)
- At what rate was the water draining out the tank when it was one-quarter full? (2 marks)

6. Calculus, EXT1 C1 2019 HSC 12a

Distance A is inversely proportional to distance B such that $A = \frac{8}{B}$ where A and B are measured in metres. The two distances vary with respect to time. Distance B is increasing at a rate of 0.2 m s^{-1} .

What is the value of $\frac{dA}{dt}$ when $A = 12$? (2 marks)

7. Calculus, EXT1 C1 EQ-Bank 1

A particle is moving along the x -axis with a velocity, u , in metres per second at t seconds, is given by the function

$$u = \sqrt{5t + 4t^2} - t^2$$

Find the acceleration of the particle when $t = 3$. (2 marks)

Questions

1. Calculus, EXT1 C1 2017 HSC 8 MC

A stone drops into a pond, creating a circular ripple. The radius of the ripple increases from 0 cm, at a constant rate of 5 cm s^{-1} .

At what rate is the area enclosed within the ripple increasing when the radius is 15 cm?

- $25\pi \text{ cm}^2 \text{ s}^{-1}$
- $30\pi \text{ cm}^2 \text{ s}^{-1}$
- $150\pi \text{ cm}^2 \text{ s}^{-1}$
- $225\pi \text{ cm}^2 \text{ s}^{-1}$

2. Calculus, EXT1 C1 2020 HSC 10 MC

The quantities P , Q and R are connected by the related rates

$$\frac{dR}{dt} = -P^2$$

$$\frac{dP}{dt} = -P + \frac{dR}{dt}$$

$$\frac{dP}{dt} = m^2 = \frac{dQ}{dt}$$

where m , l and n are non-zero constants.

Which of the following statements is true?

- P is increasing and Q is increasing
- P is increasing and Q is decreasing
- P is decreasing and Q is increasing
- P is decreasing and Q is decreasing

3. Calculus, EXT1* C1 2019 HSC 10 MC

A particle is moving along a straight line with displacement s at time t .

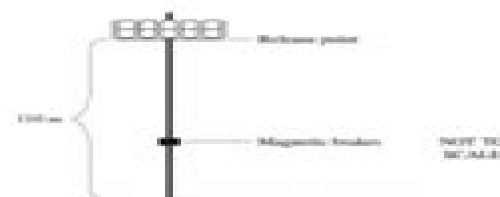
The particle is stationary when $t = 11$ and when $t = 15$.

Which of the following MUST be true in this case?

- The particle changes direction at some time between $t = 11$ and $t = 15$.
- The displacement function of the particle has a stationary point at some time between $t = 11$ and $t = 15$.
- The acceleration of the particle is 0 at some time between $t = 11$ and $t = 15$.
- The acceleration function of the particle has a stationary point at some time between $t = 11$ and $t = 15$.

8. Calculus, EXT1* C1 2015 HSC 14a

In a theme park ride, a chair is released from a height of 110 metres and falls vertically. Magnetic brakes are applied when the velocity of the chair reaches -20 metres per second.



The height of the chair at time t seconds is h metres. The acceleration of the chair is given by $\frac{dh}{dt} = -20$ at the release point, $t = 0$, $h = 110$ and $\frac{dh}{dt} = 0$.

i. Using calculus, show that $h = -5t^2 + 110$. (2 marks)

ii. How far has the chair fallen when the magnetic brakes are applied? (2 marks)

9. Calculus, EXT1 C1 2004 HSC 3c

A ferry wheel consists of a floating pontoon linked to a jetty by a 4 metre long walkway. Let A metres be the difference in height between the top of the pontoon and the top of the jetty and let x metres be the horizontal distance between the pontoon and the jetty.



i. Find an expression for $\frac{dx}{dt}$ in terms of A . (2 marks)

When the top of the pontoon is 1 metre lower than the top of the jetty, the tide is rising at a rate of 0.3 metres per hour.

ii. At what rate is the pontoon moving away from the jetty? (2 marks)

Smaths 4732 Revision

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Smaths 4732 Revision:

Mathematics of Investment Revised , **Catalog of Federal Tax Forms, Form Letters, and Notices** United States. Internal Revenue Service,1988 **Business Mathematics And Statistics Class 12 Revised 18th Edition for the Session of 2025-26** Dr. S. K. Singh, ,Dr. Awadesh Kumar Singh,Sudha Singh,2025-04-20 BUSINESS MATHEMATICS 1 Arithmetic Progression A P 2 Geometric Progression G P 3 Harmonic Progression H P 4 Properties of A P G P and H P 5 Permutation and Combination 6 Determinants 7 Matrices 8 Set Theor9 Differentiation 10 Integration STATISTICS 1 Measures of Central Tendency Arithmetic Mean 2 Median 3 Mode 4 Geometric Mean 5 Harmonic Mean 6 Analysis of Time Series 7 Theory of Probability 8 Interpolation and Extrapolation Log and Antilog Tables Latest Model Paper Board Examination Paper Business Mathematics And Statistics Class 12 Revised 17th Edition for the Session of 2024-25 Dr. S. K. Singh, ,Dr. Awadesh Kumar Singh ,Sudha Singh,2024-03-15 BUSINESS MATHEMATICS 1 Arithmetic Progression A P 2 Geometric Progression G P 3 Harmonic Progression H P 4 Properties of A P G P and H P 5 Permutation and Combination 6 Determinants 7 Matrices 8 Set Theor9 Differentiation 10 Integration STATISTICS 1 Measures of Central Tendency Arithmetic Mean 2 Median 3 Mode 4 Geometric Mean 5 Harmonic Mean 6 Analysis of Time Series 7 Theory of Probability 8 Interpolation and Extrapolation Log and Antilog Tables Latest Model Paper Board Examination Paper **Basic Engineering Mathematics** John Bird,2014-03-26 John Bird s approach to mathematics based on numerous worked examples and interactive problems is ideal for vocational students who require an entry level textbook Theory is kept to a minimum with the emphasis firmly placed on problem solving skills making this a thoroughly practical introduction to the basic mathematics engineering that students need to master The extensive and thorough topic coverage makes this an ideal introductory textbook for vocational engineering courses including the BTEC National Specifications Now in its sixth edition Basic Engineering Mathematics has helped thousands of students to succeed in their exams The new edition includes a section at the start of each chapter to explain why the content is important and how it relates to real life It is also supported by a fully updated companion website with resources for both students and lecturers The text contains over 750 worked problems and it has full solutions to all 1600 further questions contained in the 161 practice exercises All 420 illustrations used in the text can be downloaded for use in the classroom **Bird's Comprehensive Engineering Mathematics** John Bird,2018-06-19 Studying engineering whether it is mechanical electrical or civil relies heavily on an understanding of mathematics This textbook clearly demonstrates the relevance of mathematical principles and shows how to apply them in real life engineering problems It deliberately starts at an elementary level so that students who are starting from a low knowledge base will be able to quickly get up to the level required Students who have not studied mathematics for some time will find this an excellent refresher Each chapter starts with the basics before gently increasing in complexity A full outline of essential definitions formulae laws and procedures is presented before real world practical situations and problem solving

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Differential Operators and Spectral Theory M. Sh Birman, Margarita Solomyak, 1999 This volume contains a collection of original papers in mathematical physics spectral theory and differential equations The papers are dedicated to the outstanding mathematician Professor M Sh Birman on the occasion of his 70th birthday Contributing authors are leading specialists and close professional colleagues of Birman The main topics discussed are spectral and scattering theory of differential operators trace formulas and boundary value problems for PDEs Several papers are devoted to the magnetic Schrodinger operator which is within Birman s current scope of interests and recently has been studied extensively Included is a detailed survey of his mathematical work and an updated list of his publications This book is aimed at graduate students and specialists in the above mentioned branches of mathematics and theoretical physicists The biographical section will be of interest to readers concerned with the scientific activities of Birman and the history of those branches of analysis and spectral theory where his contributions were important and often decisive Features The first detailed survey of Birman s mathematical work includes an updated bibliography New material on the history of some branches of analysis Prominent authors Lieb Agmon Deift Simon Ladyzhenskaya and others All original works containing new results in fields of great current interest

Caribbean Maths Connect: Book 1 Benita Byer-Bowen, 2006-01-17 This publication written and developed by experienced Caribbean teachers and advisors has been designed to meet the requirements of maths syllabuses from across the region It includes worked examples objectives and explanation boxes overviews of chapters real life case studies assessments and reviews and progressive exercises that support the development of critical thinking skills and independent

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Catalog of Federal Tax Forms, Form Letters, and Notices, 1980 Science and Mathematics for Engineering John Bird, 2019-10-08 A practical introduction to the engineering science and mathematics required for engineering study and practice. Science and Mathematics for Engineering is an introductory textbook that assumes no prior background in engineering. This new edition covers the fundamental scientific knowledge that all trainee engineers must acquire in order to pass their examinations and has been brought fully in line with the compulsory science and mathematics units in the new engineering course specifications. A new chapter covers present and future ways of generating electricity, an important topic. John Bird focuses upon engineering examples enabling students to develop a sound understanding of engineering systems in terms of the basic laws and principles. This book includes over 580 worked examples, 1300 further problems, 425 multiple choice questions with answers and contains sections covering the mathematics that students will require within their engineering studies: mechanical applications, electrical applications and engineering systems. This book is supported by a companion website of materials that can be found at www.routledge.com/bird. This resource includes fully worked solutions of all the further problems for students to access and the full solutions and marking schemes for the revision tests found within the book for instructor use. In addition, all 447 illustrations will be available for downloading by lecturers.

Federal Register, 1966-03 **The improved practical navigator, revised by T. Kirby** Nathaniel Bowditch, 1809 **Finite Mathematics, Models, and Structure** William J. Adams, 2009-02-16 Still another book on finite math. Why hasn't everything that should have been said been said? No, I would argue. The shortcoming that troubles me most about the books I am familiar with is their failure to provide perspective on what math technique and the use of technology can do for us and its limitations. This can only be addressed through vigorous and sustained use of the mathematical modeling perspective, which is a hallmark of this book's exposition. A point continually stressed is that reaching a mathematical answer to a problem is not the end of the story. It is in a sense the end of a chapter but the next chapter is

concerned with questions about whether and how the mathematical answer should be implemented Also addressed is the question of what to consider when more than one answer is obtained for a problem

Business Mathematics And Statistics Class 12 Revised 17th Edition for the Session of 2024-25 Dr. S. K. Singh ,Samresh Chauhan,2024-04-04 Business Mathematics 1 Arithmetic Progression A P 2 Geometric Progression G P 3 Harmonic Progression H P 4 Properties of A P G P and H P 5 Permutation and Combination 6 Determinants 7 Matrices 8 Set Theory 9 Differentiation 10 Integration Statistics 1 Measures of Central Tendency Arithmetic Mean 2 Median 3 Mode 4 Geometric Mean 5 Harmonic Mean 6 Analysis of Time Series 7 Theory of Probability 8 Interpolation and Extrapolation Logarithms and Antilogarithms Tables Latest Model Paper Board Examination Paper A Systems Approach to Improving K-12 STEM Education United States. Congress. House. Committee on Science and Technology (2007). Subcommittee on Research and Science Education,2010 Compilation of Navy and Other Laws from the Revised Statutes and Statutes at Large Passed by the Forty-third Congress, Ended March 4, 1875 United States,1875 Advanced Computing in Industrial Mathematics Ivan Georgiev,Hristo Kostadinov,Elena Lilkova,2023-09-26 This book gathers the peer reviewed proceedings of the 14th Annual Meeting of the Bulgarian Section of the Society for Industrial and Applied Mathematics BGSIAM 19 held in Sofia Bulgaria The general theme of BGSIAM 19 was industrial and applied mathematics with particular focus on mathematical physics numerical analysis high performance computing optimization and control mathematical biology stochastic modeling machine learning digitization and imaging and advanced computing in environmental biomedical and engineering applications

Structured Object-Oriented Formal Language and Method Shaoying Liu,Zhenhua Duan,Cong Tian,Fumiko Nagoya,2017-04-20 This book constitutes revised selected papers from the 6th International Workshop on Structures Object Oriented Formal Language and Method SOFL MSVL 2016 held in Tokyo Japan in November 2016 The 13 papers presented in this volume were carefully reviewed and selected from 26 submissions They are organized in topical sections named modeling and specification animation and prototyping verification and validation and model checking

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Table of Contents Smaths 4732 Revision

1. Understanding the eBook Smaths 4732 Revision
 - The Rise of Digital Reading Smaths 4732 Revision
 - Advantages of eBooks Over Traditional Books
2. Identifying Smaths 4732 Revision
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Smaths 4732 Revision
 - User-Friendly Interface
4. Exploring eBook Recommendations from Smaths 4732 Revision
 - Personalized Recommendations
 - Smaths 4732 Revision User Reviews and Ratings

- Smaths 4732 Revision and Bestseller Lists
- 5. Accessing Smaths 4732 Revision Free and Paid eBooks
 - Smaths 4732 Revision Public Domain eBooks
 - Smaths 4732 Revision eBook Subscription Services
 - Smaths 4732 Revision Budget-Friendly Options
- 6. Navigating Smaths 4732 Revision eBook Formats
 - ePub, PDF, MOBI, and More
 - Smaths 4732 Revision Compatibility with Devices
 - Smaths 4732 Revision Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Smaths 4732 Revision
 - Highlighting and Note-Taking Smaths 4732 Revision
 - Interactive Elements Smaths 4732 Revision
- 8. Staying Engaged with Smaths 4732 Revision
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Smaths 4732 Revision
- 9. Balancing eBooks and Physical Books Smaths 4732 Revision
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Smaths 4732 Revision
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Smaths 4732 Revision
 - Setting Reading Goals Smaths 4732 Revision
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Smaths 4732 Revision
 - Fact-Checking eBook Content of Smaths 4732 Revision
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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