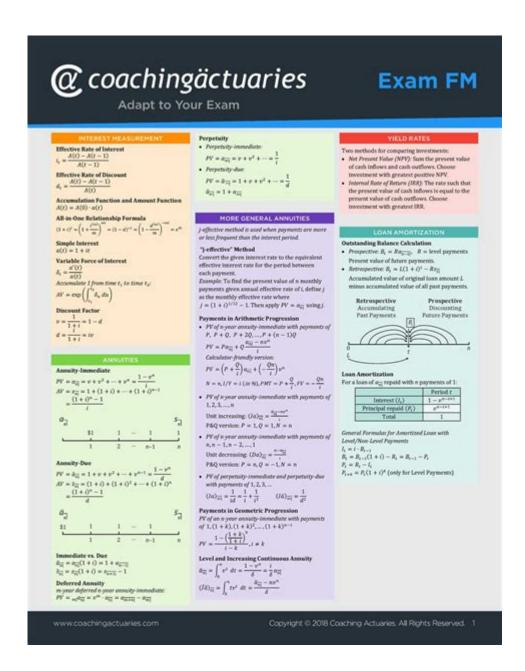
### **Exam Fm Formula Sheet**



## **Exam FM Formula Sheet: Your Ultimate Guide to Success**

Conquering the Exam FM (Financial Mathematics) exam requires meticulous preparation and a deep understanding of core concepts. While mastering the theory is crucial, having a concise and readily accessible formula sheet can significantly boost your performance and reduce exam-day stress. This comprehensive guide provides you with not just a list of formulas, but a strategic approach to using them effectively, turning your formula sheet into a powerful tool for success. We'll delve into key formulas, organizational strategies, and tips for maximizing their use during the exam. Get ready to transform your study approach and unlock your full potential!

# Understanding the Exam FM Formula Sheet's Importance

The Exam FM, administered by the Society of Actuaries (SOA), is notorious for its demanding mathematical content. A well-structured formula sheet isn't just a cheat sheet; it's a personalized roadmap through the complex world of financial mathematics. It serves several critical functions:

- 1. Quick Reference: Immediate access to essential formulas during the exam eliminates valuable time spent recalling them from memory.
- 2. Memory Aid: The act of creating and reviewing your formula sheet reinforces your understanding of the underlying concepts.
- 3. Organizational Tool: A logically organized sheet allows for easy navigation and quick identification of the relevant formulas for specific problem types.
- 4. Confidence Booster: Having a reliable and familiar resource at your fingertips reduces anxiety and builds confidence during the exam.

### **Key Formula Categories for Your Exam FM Formula Sheet**

Your Exam FM formula sheet should be organized logically to maximize its effectiveness. Consider categorizing formulas based on their application:

### 1. Time Value of Money (TVM): This forms the backbone of Exam FM. Ensure your sheet includes formulas for:

Present Value (PV):  $PV = FV / (1 + i)^n$  (and its variations for annuities) Future Value (FV):  $FV = PV (1 + i)^n$  (and its variations for annuities) Present Value of an Annuity (PVA):  $PVA = PMT [(1 - (1 + i)^n - 1) / i]$  Future Value of an Annuity (FVA):  $FVA = PMT [((1 + i)^n - 1) / i]$  Perpetuity: PV = PMT / i

#### Important Note: Understand the nuances of different annuity types (ordinary, annuity-due, etc.) and incorporate their respective formulas.

#### 2. Bonds: Include formulas for:

Bond Price: Price =  $\Sigma$  [PMT / (1 + i)^t] + FV / (1 + i)^n (where PMT is coupon payment, FV is face value, i is yield to maturity, n is time to maturity).

Yield to Maturity (YTM): This is typically solved iteratively, so understanding the concept is more important than memorizing a specific formula.

### 3. Derivatives: Depending on the specific topics covered in your curriculum, include formulas for:

Option Pricing (Black-Scholes): While the full Black-Scholes formula is complex, understanding the key inputs and their relationship is crucial. Focus on conceptual understanding rather than rote memorization.

Forward and Futures Contracts: Formulas for calculating forward/futures prices based on spot prices and interest rates.

### 4. Continuous Compounding: Be sure to include formulas involving the exponential function (e):

Continuous Compounding FV: FV = PV e^(rt)
Continuous Compounding PV: PV = FV e^(-rt)

# Constructing Your Effective Exam FM Formula Sheet: Tips & Strategies

Creating a successful formula sheet is an art in itself. Here's how to optimize yours:

Prioritize Clarity: Use clear, concise notation. Avoid ambiguity.

Strategic Organization: Categorize formulas logically. Use headings, subheadings, and bullet points. Visual Appeal: A well-organized and visually appealing sheet is easier to navigate under pressure. Practice, Practice, Practice: Regularly review and update your sheet throughout your studies. Using it to solve practice problems is key to mastering the material.

Keep it Concise: Avoid overwhelming yourself with unnecessary information. Focus on the essentials.

### **Conclusion**

A well-crafted Exam FM formula sheet is an invaluable asset. By understanding the key formulas, organizing your sheet strategically, and practicing its use diligently, you'll be well-equipped to tackle the Exam FM with confidence. Remember, your formula sheet is a tool to enhance your understanding and performance, not a substitute for comprehensive study. Use it wisely, and success will follow!

### **FAQs**

- 1. Can I bring a pre-made formula sheet to the exam? No, the SOA does not allow pre-made formula sheets. You must create your own during the exam preparation period.
- 2. How many formulas should my sheet contain? Focus on the essential formulas—aim for quality over quantity. A well-organized sheet with 20-30 key formulas is better than a cluttered one with 50.
- 3. What type of paper should I use for my formula sheet? Use standard-sized paper that's easy to handle. Avoid anything too thick or cumbersome.
- 4. Should I include derivations of formulas on my sheet? No, prioritize the final formulas. Including derivations will likely clutter your sheet and waste valuable space.
- 5. How can I memorize all the formulas efficiently? Don't try to memorize them passively. Use active recall techniques, solve practice problems, and create flashcards to reinforce your understanding.

exam fm formula sheet: Digital Actuarial Resources Digital Actuarial Resources, 2005-10

Digital Actuarial Resources published a short study guide for Exam FM/2 offered through the Society of Actuaries and the CAS. This study guide contains all the financial mathematics equations that you need to know for Exam FM. The study guide is 19 pages with 180+ formulas. The guide covers the following topics: Basic Interest Equations, Annuities, Cash Flows, Loans, Bonds, and Stocks.

exam fm formula sheet: Financial Mathematics For Actuaries (Third Edition) Wai-sum Chan, Yiu-kuen Tse, 2021-09-14 This book provides a thorough understanding of the fundamental concepts of financial mathematics essential for the evaluation of any financial product and instrument. Mastering concepts of present and future values of streams of cash flows under different interest rate environments is core for actuaries and financial economists. This book covers the body of knowledge required by the Society of Actuaries (SOA) for its Financial Mathematics (FM) Exam. The third edition includes major changes such as an addition of an 'R Laboratory' section in each chapter, except for Chapter 9. These sections provide R codes to do various computations, which will facilitate students to apply conceptual knowledge. Additionally, key definitions have been revised and the theme structure has been altered. Students studying undergraduate courses on financial mathematics for actuaries will find this book useful. This book offers numerous examples and exercises, some of which are adapted from previous SOA FM Exams. It is also useful for students preparing for the actuarial professional exams through self-study.

exam fm formula sheet: Hormone Therapy and Replacement in Cancer and Aging-related Diseases Letícia Rangel, Ian Victor Silva, Paulo Cilas Morais Lyra Junior, Marcele Mattos De Souza, Diandra Zipinotti Dos Santos, Hephzibah Kirubamani, 2020-07-22 This edited volume, Hormone Therapy and Replacement in Cancer and Aging-related Diseases, is a collection of reviewed and relevant research chapters, offering a comprehensive overview of recent developments in the field of hormone replacement therapy. The book comprises single chapters authored by various researchers and edited by experts active in the hormone replacement therapy research area. All chapters are complete in themselves but united under a common research study topic. This publication aims at providing a thorough overview of the latest research efforts by international authors on hormone replacement therapy, and opens new possible research paths for further novel developments.

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exam fm formula sheet: SOA Exam FM Harold Cherry, 2017 The 12th edition of the manual has the following features: •The manual has been revised and updated to conform to the new syllabus for the June 2017 and subsequent exams. •The concepts of financial mathematics are explained in plain English, in a manner that appeals to your intuition and common sense. •The manual shows you tricks and shortcuts for various types of problems, warns you about common traps that students fall into, and tells you how to avoid them. •Over 1,000 problems with detailed solutions, about half of them from prior SOA/CAS exams and half that are original to the manual.
•After each topic there are examples called "Stepping Stones" that are designed to tell you whether you have understood what you have just read, and to serve as a bridge to more difficult exam-level problems. •There is a summary of the key concepts and formulas after each topic. •There are 9 sets of Calculator Notes that give you detailed instructions for using the BA II Plus calculator. •Six original full-length (35 questions) practice exams, with complete solutions are included. •Over 600 pages in all.--Résumé de l'éditeur.

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astrophysics. An exhaustive index allows the required formulas to be located swiftly and simply, and the unique tabular format crisply identifies all the variables involved. The Cambridge Handbook of Physics Formulas comprehensively covers the major topics explored in undergraduate physics courses. It is designed to be a compact, portable, reference book suitable for everyday work, problem solving or exam revision. All students and professionals in physics, applied mathematics, engineering and other physical sciences will want to have this essential reference book within easy reach.

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Daniel Farcas, 2019-12-06 About the Book: CSP EXAM Equations simply explained and with
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the exams' formulas and grasp the basic concepts of the calculations by rigorous explained
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environmental professionals in their daily work and decision-making process.About the Author: Dr.
Daniel Farcas has more than 20 years of experience in conducting scientific research and leading
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microbiology, silica, and asbestos. He is author or co-author of numerous scientific manuscripts in
peer-reviewed journals.Dr. Daniel Farcas is a Certified Industrial Hygienist (CIH) CP #11723, a
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Calculus by R Courant, Calculus by T Apostol, Calculus by M Spivak, and Pure Mathematics by G Hardy. The reader should also have some experience with partial derivatives. In overall plan the book divides roughly into a first half which develops the calculus (principally the differential calculus) in the setting of normed vector spaces, and a second half which deals with the calculus of differentiable manifolds.

**exam fm formula sheet:** Aeronautical Engineer's Data Book Cliff Matthews, 2001-10-17 Aeronautical Engineer's Data Bookis an essential handy guide containing useful up to date information regularly needed by the student or practising engineer. Covering all aspects of aircraft, both fixed wing and rotary craft, this pocket book provides quick access to useful aeronautical engineering data and sources of information for further in-depth information. - Quick reference to essential data - Most up to date information available

**exam fm formula sheet: CRC Standard Probability and Statistics Tables and Formulae, Student Edition** Stephen Kokoska, Daniel Zwillinger, 2000-03-29 Users of statistics in their professional lives and statistics students will welcome this concise, easy-to-use reference for basic statistics and probability. It contains all of the standardized statistical tables and formulas typically needed plus material on basic statistics topics, such as probability theory and distributions, regression, analysis of variance, nonparametric statistics, and statistical quality control. For each type of distribution the authors supply: ? definitions ? tables ? relationships with other distributions, including limiting forms ? statistical parameters, such as variance and generating functions ? a list of common problems involving the distribution Standard Probability and Statistics: Tables and Formulae also includes discussion of common statistical problems and supplies examples that show readers how to use the tables and formulae to get the solutions they need. With this handy reference, the focus can shift from rote learning and memorization to the concepts needed to use statistics efficiently and effectively.

exam fm formula sheet: Op Amps for Everyone Ron Mancini, 2003 The operational amplifier (op amp) is the most versatile and widely used type of analog IC, used in audio and voltage amplifiers, signal conditioners, signal converters, oscillators, and analog computing systems. Almost every electronic device uses at least one op amp. This book is Texas Instruments' complete professional-level tutorial and reference to operational amplifier theory and applications. Among the topics covered are basic op amp physics (including reviews of current and voltage division, Thevenin's theorem, and transistor models), idealized op amp operation and configuration, feedback theory and methods, single and dual supply operation, understanding op amp parameters, minimizing noise in op amp circuits, and practical applications such as instrumentation amplifiers, signal conditioning, oscillators, active filters, load and level conversions, and analog computing. There is also extensive coverage of circuit construction techniques, including circuit board design, grounding, input and output isolation, using decoupling capacitors, and frequency characteristics of passive components. The material in this book is applicable to all op amp ICs from all manufacturers, not just TI. Unlike textbook treatments of op amp theory that tend to focus on idealized op amp models and configuration, this title uses idealized models only when necessary to explain op amp theory. The bulk of this book is on real-world op amps and their applications; considerations such as thermal effects, circuit noise, circuit buffering, selection of appropriate op amps for a given application, and unexpected effects in passive components are all discussed in detail. \*Published in conjunction with Texas Instruments \*A single volume, professional-level guide to op amp theory and applications \*Covers circuit board layout techniques for manufacturing op amp circuits.

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and technology, and ASP has found applications in diverse areas—in historical linguistic, in bioinformatics, in robotics, in space exploration, in oil and gas industry, and many others. The importance of this programming method was recognized by the Association for the Advancement of Artificial Intelligence in 2016, when AI Magazine published a special issue on answer set programming. The book introduces the reader to the theory and practice of ASP. It describes the input language of the answer set solver CLINGO, which was designed at the University of Potsdam in Germany and is used today by ASP programmers in many countries. It includes numerous examples of ASP programs and present the mathematical theory that ASP is based on. There are many exercises with complete solutions.

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edition has been specifically developed for the U.S. market. It provides the latest US codes and standards, including API, ASME and ISA design codes and ANSI standards. It contains new discussions of conceptual plant design, flowsheet development, and revamp design; extended coverage of capital cost estimation, process costing, and economics; and new chapters on equipment selection, reactor design, and solids handling processes. A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data, and Excel spreadsheet calculations, plus over 150 Patent References for downloading from the companion website. Extensive instructor resources, including 1170 lecture slides and a fully worked solutions manual are available to adopting instructors. This text is designed for chemical and biochemical engineering students (senior undergraduate year, plus appropriate for capstone design courses where taken, plus graduates) and lecturers/tutors, and professionals in industry (chemical process, biochemical, pharmaceutical, petrochemical sectors). New to this edition: - Revised organization into Part I: Process Design, and Part II: Plant Design. The broad themes of Part I are flowsheet development, economic analysis, safety and environmental impact and optimization. Part II contains chapters on equipment design and selection that can be used as supplements to a lecture course or as essential references for students or practicing engineers working on design projects. - New discussion of conceptual plant design, flowsheet development and revamp design - Significantly increased coverage of capital cost estimation, process costing and economics - New chapters on equipment selection, reactor design and solids handling processes - New sections on fermentation, adsorption, membrane separations, ion exchange and chromatography - Increased coverage of batch processing, food, pharmaceutical and biological processes - All equipment chapters in Part II revised and updated with current information - Updated throughout for latest US codes and standards, including API, ASME and ISA design codes and ANSI standards - Additional worked examples and homework problems - The most complete and up to date coverage of equipment selection - 108 realistic commercial design projects from diverse industries - A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data and Excel spreadsheet calculations plus over 150 Patent References, for downloading from the companion website -Extensive instructor resources: 1170 lecture slides plus fully worked solutions manual available to adopting instructors

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active learning, this book is ideally designed for managers, professionals, graduate students, academics, and researchers interested in research-based strategies for obtaining organizational effectiveness.

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exam fm formula sheet: Discrete Mathematics for Computer Science Gary Haggard, John Schlipf, Sue Whitesides, 2006 Master the fundamentals of discrete mathematics with DISCRETE MATHEMATICS FOR COMPUTER SCIENCE with Student Solutions Manual CD-ROM! An increasing number of computer scientists from diverse areas are using discrete mathematical structures to explain concepts and problems and this mathematics text shows you how to express precise ideas in clear mathematical language. Through a wealth of exercises and examples, you will learn how mastering discrete mathematics will help you develop important reasoning skills that will continue to be useful throughout your career.

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exam fm formula sheet: Principles of Accounting Volume 1 - Financial Accounting Mitchell Franklin, Patty Graybeal, Dixon Cooper, 2019-04-11 The text and images in this book are in grayscale. A hardback color version is available. Search for ISBN 9781680922929. Principles of Accounting is designed to meet the scope and sequence requirements of a two-semester accounting course that covers the fundamentals of financial and managerial accounting. This book is specifically designed to appeal to both accounting and non-accounting majors, exposing students to the core concepts of accounting in familiar ways to build a strong foundation that can be applied across business fields. Each chapter opens with a relatable real-life scenario for today's college student. Thoughtfully designed examples are presented throughout each chapter, allowing students to build on emerging accounting knowledge. Concepts are further reinforced through applicable connections to more detailed business processes. Students are immersed in the why as well as the how aspects of accounting in order to reinforce concepts and promote comprehension over rote memorization.

**exam fm formula sheet:** <u>Calculus</u> Gilbert Strang, Edwin Prine Herman, 2016-03-07 Published by OpenStax College, Calculus is designed for the typical two- or three-semester general calculus course, incorporating innovative features to enhance student learning. The book guides students through the core concepts of calculus and helps them understand how those concepts apply to their lives and the world around them. Due to the comprehensive nature of the material, we are offering the book in three volumes for flexibility and efficiency. Volume 2 covers integration, differential equations, sequences and series, and parametric equations and polar coordinates.--BC Campus website.

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**exam fm formula sheet: Real Analysis (Classic Version)** Halsey Royden, Patrick Fitzpatrick, 2017-02-13 This text is designed for graduate-level courses in real analysis. Real Analysis, 4th Edition, covers the basic material that every graduate student should know in the classical theory of functions of a real variable, measure and integration theory, and some of the more important and elementary topics in general topology and normed linear space theory. This text assumes a general

background in undergraduate mathematics and familiarity with the material covered in an undergraduate course on the fundamental concepts of analysis.

**exam fm formula sheet:** How to Play Sudoku Howexpert Press, 2016-10-02 If you want to learn the basics of playing Sudoku puzzles quickly and easily for newbies and beginners, then get this How To Play Sudoku guide. In this step-by-step guide, you will rep the following benefits: - Be familiar with the game rules. - Learn the basic way of doing Sudoku. - Get useful tips in solving Sudoku puzzle. - Be able to solve Sudoku puzzle in the shortest time possible. - Learn how to appropriately choose a candidate. - Solve different levels of Sudoku puzzle. - Amaze your friends and family to your new found hobby of solving sudoku. - And much more! Click Buy Now to get it now!

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