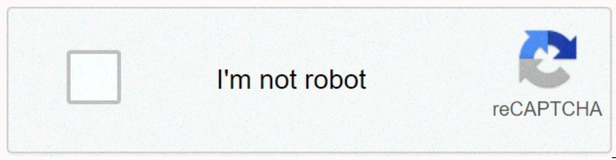

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Advanced mathematics topics pdf

The Grade 12 Advanced Mathematics Topics (Study Guide) is a summary of the mathematics topics in Grades 11 and 12. The topics neatly picked from the Advanced Mathematics School Syllabus is for the Grade 12 students to use as a checklist when preparing for the mathematics national exam. This list is made available for free through PNG Insight new initiative to #CloseLearningGapInMath. Students can download the editable MS Doc and create a study outline from the list of topics. We believe this can help the Grade students to revise for the Advanced Mathematics Exam at the end of the year. Advanced Mathematics Topics – Grade 11 and 12 PNG Insight understands that the students, parents, and guardians will have difficulty reading and understanding the Advanced Mathematics Syllabus and Teachers Guide. That is why we list the core contents in the Grade 12 Mathematics Revision Guide to put in perspective the Advanced Mathematics topics that students learn at Grades 11 and 12. Grade 12 Mathematics Topics – Core Content Areas There are four (4) Core Content Areas Grade 11 and three (3) in Grade 12. The *editable* version of the list of topics is available for download. Click on the link to download the editable MS Word file containing the list of Advanced Mathematics topics. Download the file the use it to arrange your revision questions or questions from the past papers under the topics and revise accordingly. Take a look at what we did for the Grade 10s if you need inspirations – Grade 10 Maths Exam Questions and Answers. GRADE 11 Advanced Mathematics Core Units/Topics 1) 11.1. Number and Application 1.1) Basic numeracy 1.2) Units of measurement 1.3) Ratio and proportion 1.4) Basic algebra 2) 11.2. Graphs and Functions 2.1) Algebraic Expressions 2.2) Graphs and Functions 3) 11.3. Managing Data 3.1) Statistics 3.2) Permutation and combination 3.3) Probability 4) 11.4. Geometry 4.1) Congruency, similarity and construction 4.2) Circles GRADE 12 Advanced Mathematics Core Units/Topics 5) 12.1. Patterns and Algebra 5.1) Sets 5.2) Sequences and series 5.3) Binomial theorem 5.4) Determinants 6) 12.2. Trigonometry and Vectors 6.1) Trigonometry 6.2) Vectors 7) 12.3. Calculus 7.1) Differentiation 7.2) Integration Key Points: Advanced Mathematics Revision Guide Covering the content units is fundamental to students achieving good marks in Grade 12 Mathematics assessments and end-of-the-year examinations. Here are three pointers about the use of the mathematics study guide for grade 12. The topics are from the Advanced Mathematics Upper Secondary School Syllabus (Grades 11 and 12). Advanced Mathematics topics form the basis of classroom teachings and assessments. It is important for students to use the topics as guides when revising for major mathematics examinations. The new and experienced Advanced Mathematics teachers at Grade 11 and 12 levels should (and must) cover the topics in-depth and at greater length. Where there are GAPS in learning, students can use their initiatives to learn. Therefore, this guide will help students to identify topics of interests and revise accordingly. Download Grade 12 Mathematics Study Guide Note that the outline of this study guide correlates to the Advanced Mathematics Examination questions, both past and present. Refer to the link at the end of this article to download the PDF version of the Grade 12 Advanced Mathematics Study Guide, Upper Secondary School GM Syllabus and the Teachers Guide. The Grade 12 Mathematics Study Guide, is a collection of the compulsory Units/Topics in Grades 11 to 12 coursework. The intent is to help students know about what they are studying at these levels and guide to planning their mathematics revisions. You can download the editable version of the study guide now. (Download Grade 12 Advanced Mathematics Study Guide WORD DOC) Grades 8 and 10 Math Topics and Exam Revision Guides We produce similar Exam Revision Guides for Grades 8, 10 and 12 (General Mathematics). Check out the 'Exam Study Guide' menu above if you want to download the editable versions of the respective files. IMPORTANT: GRADE 12 ADVANCED MATHEMATICS EXAM Students can use the outline to COMPILE revision questions for the GRADE 12 ADVANCED MATHEMATICS EXAM Teachers can use this outline with the Grade 12 AM Upper Secondary School SYLLABUS AND TEACHERS' GUIDES Download the Editable Version – see link in the article. The Upper Secondary School (Advanced Mathematics Syllabus) and Teachers Guide is available in PDF for download. – End – Advanced Topics in Mathematics. The content of this course will vary. An assignment or assignments will have the graduate student relate this course to their research. Instructor: Staff Emmanuel Kowalski Published online: 04 May 2021 Print publication: 06 May 2021 Despite its seemingly deterministic nature, the study of whole numbers, especially prime numbers, has many interactions with probability theory, the theory of random processes and events. This surprising connection was first discovered around 1920, but in recent years the links have become much deeper and better understood. Aimed at beginning graduate students, this textbook is the first to explain some of the most modern parts of the story. Such topics include the Chebychev bias, universality of the Riemann zeta function, exponential sums and the bewitching shapes known as Kloosterman paths. Emphasis is given throughout to probabilistic ideas in the arguments, not just the final statements, and the focus is on key examples over technicalities. The book develops probabilistic number theory from scratch, with short appendices summarizing the most important background results from number theory, analysis and probability, making it a readable and incisive introduction to this beautiful area of mathematics. Copyright © 2021 Art of Problem Solving Karishma Khatri Exams Prep. Master | Updated On -May 24, 2021 Let's take a quick look at the Mathematics syllabus of JEE Advanced 2021 released by NTA and which covers a total 7 units. Download JEE Advanced Mathematics Syllabus 2021 Units Sub Units Algebra Algebra of complex numbers, addition, multiplication, conjugation, polar representation, properties of modulus and principal argument, triangle inequality, cube roots of unity, geometric interpretations. Quadratic equations with real coefficients, relations between roots and coefficients, formation of quadratic equations with given roots, symmetric functions of roots. Arithmetic, geometric and harmonic progressions, arithmetic, geometric and harmonic means, sums of finite arithmetic and geometric progressions, infinite geometric series, Sum of squares and cubes of the first n natural numbers. Logarithms and their properties. Permutations and combinations, binomial theorem for a positive integral index, properties of binomial coefficients. Matrices Matrices as a rectangular array of real numbers, equality of matrices, addition, multiplication by a scalar and product of matrices, transpose of a matrix, determinant of a square matrix of order up to three, inverse of a square matrix of order up to three, inverse of a square matrix of order up to three, properties of these matrix operations, diagonal, symmetric and skew-symmetric matrices and their properties, solutions of simultaneous linear equations in two or three variables. Probability Addition and multiplication rules of probability, conditional probability, Bayes Theorem, Independence of events, computation of probability of events using permutations and combinations. Trigonometry Trigonometric functions, their periodicity and graphs, addition and subtraction formulae, formulae involving multiple and sub-multiple angles, general solution of trigonometric equations. Relations between sides and angles of a triangle, sine rule, cosine rule, half-angle formula and the area of a triangle, inverse trigonometric Analytical Geometry Two dimensions Cartesian coordinates, distance between two points, section formulae, shift of origin. Equation of a straight line in various forms, angle between two lines, distance of a point from a line; Lines through the point of intersection of two given lines, equation of the bisector of the angle between two lines and, Concurrency of lines; Centroid, orthocentre, incentre and circumcentre of a triangle. Equation of a circle in various forms, equations of tangent, normal and chord. Parametric equations of a circle, intersection of a circle with a straight line or a circle, equation of a circle through the points of intersection of two circles and those of a circle and a straight line. Equations of a parabola, ellipse and hyperbola in standard form, their foci, directrices and eccentricity, parametric equations, equations of tangent and normal. Locus problems Three dimensions: Direction cosines and direction ratios, equation of a straight line in space, equation of a plane, distance of a point from a plane. Differential Calculus Real valued functions of a real variable, into, onto and one-to-one functions, sum, difference, product and quotient of two functions, composite functions, absolute value, polynomial, rational, trigonometric, exponential and logarithmic functions. Limit and continuity of a function, limit and continuity of the sum, difference, product and quotient of two functions, L'Hospital rule of evaluation of limits of functions. Even and odd functions, inverse of a function, continuity of composite functions, intermediate value property of continuous functions. Derivative of a function, derivative of the sum, difference, product and quotient of two functions, chain rule, derivatives of polynomial, rational, trigonometric, inverse trigonometric, exponential and logarithmic functions. Derivatives of implicit functions, derivatives up to order two, geometrical interpretation of the derivative, tangents and normal, increasing and decreasing functions, maximum and minimum values of a function, Rolle's theorem and Lagrange's mean value theorem. Integral Calculus Integration as the inverse process of differentiation, indefinite integrals of standard functions, definite integrals and their properties, fundamental theorem of integral calculus. Integration by parts, integration by the methods of substitution and partial fractions, application of definite integrals to the determination of areas involving simple curves. Formation of ordinary differential equations, solution of homogeneous differential equations, separation of variables method, linear first order differential equations. Vectors Addition of vectors, scalar multiplication, dot and cross products, scalar triple products and their geometrical interpretations. Maths Ques-wise Weightage JEE Advanced Mathematics Question-wise Weightage Many aspirants think that the mathematics problem can most probably be solved with the help of brilliant short cut tricks, and therefore in this misconception they forget that the "killer short cut tricks" are itself developed by one and only thing "smart practice". Also Check JEE Advanced Physics Syllabus Hence to support aspirants in doing that i.e. by saving their time in figuring out from which important topic they should begin below is the section, marks and question wise distribution of the topics. Units Number of Questions Subunits Algebra 1 Logarithms 2 Sums and Series 3 Basic geometry and theorems Matrices and Determinants 1 All topics covered under this section are important. Probabillty 1 All topics covered under this section are important. Trignometry 1 Height and Distance 2 Trignometric Identities Analytical Geometry 1 Horizontal and Vertical Shift Definite and Integral Calculus 1 Application of derivatives 2 Differentiation 3 Definite Integral Vectors 1 All the topics covered under this section are important This division of section wise doesn't mean to leave or ignore or sideline other topics therefore besides the above table below are some core topics to be remembered at every cost. Chapters to be covered at any cost! Sets relation & Functions 3-D Geometry Conic Sections Scoring chapters hence should be covered Limits Continuity and Derivability Quadratic Equation Permutation and Combination Circles Binomial Theorem Differential Equations Chapters to be done of left with the plenty of time Inverse Trignometry Mathematical Induction Mathematical Reasoning Application of Integrals Marks-wise Topics Weightage JEE Advanced - Marks wise Weightage of Topics Topics Marks Calculus 40-50 marks Vector and 3D 15-20 marks Probability and Permutation & Combination 15-20 marks Parabola, Hyperbola, Ellipse, Rectangular Hyperbola 15 marks Complex Numbers 15 marks Besides the given below books, NCERT must become the "have to do" book for every aspirant. R.D. Sharma (Subjective) for basics. Subjective set of Arihant publications written by Amit Aggarwal and S K Goyal. Previous year JEE Advanced book by Arihant publication. Calculus - Problems in Calculus of One Variable by I.A. Maron. Course in Mathematics for IIT-JEE by Tata McGraw-Hill publications. *The article might have information for the previous academic years, which will be updated soon subject to the notification issued by the University/College.

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