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Maths for 11th class

You should prepare chapters in a way that the arrangement of chapters is in the textbook. Master the 11th Grade & 12th Grade Topics by retaking the quizzes and tests. Rectangular Cartesian Co-ordinates Polar Co-ordinates Transformation Distance between Two Points Division of a Line Segment Area of the Triangle Formed by Three co-ordinate Points Medians of a Triangle are Concurrent Apollonius' Theorem Locus Locus of a Moving Point Equation of a Straight Line Angle between Two Lines Distance of a Point from a Given Line Equations of Circles Conic Section Parabola Ellipse and Hyperbola Diameters of Conic Solid Geometry Theorems Theorems on Solid Geometry Theorems on Straight Lines and Plane Theorem on Co-planar Theorem on Parallel Lines and Plane Theorem of Three Perpendiculars Mensuration Formulas for 3D Shapes Prism Pyramid Formula Basic Math Formulas Math Formula Sheet on Co-Ordinate Geometry All Math Formula on Mensuration Simple Math Formula on Trigonometry Mathematical Induction Mathematical Induction Problems on Principle of Mathematical Induction Proof by Mathematical Induction Induction Proof Variation Surds Definitions of Surds Order of a 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Formula tan (α – β) Proof of Cotangent Formula cot (α + β) Proof of Cotangent Formula cot (α – β) Expansion of sin (A + B + C) Expansion of sin (A – B + C) Expansion of cos (A + B + C) Expansion of tan (A + B + C) Compound Angle Formulae Problems using Compound Angle Formulae Problems on Compound Angles Converting Product into Sum/Difference and Vice Versa Converting Product into Sum or Difference Formulae for Converting Product into Sum or Difference Converting Sum or Difference into Product Formulae for Converting Sum or Difference into Product Express the Sum or Difference as a Product Express the Product as a Sum or Difference Multiple Angles sin 2A in Terms of A cos 2A in Terms of A tan 2A in Terms of A sin 2A in Terms of tan A cos 2A in Terms of tan A Trigonometric Functions of A in Terms of cos 2A sin 3A in Terms of A cos 3A in Terms of A tan 3A in Terms of A Multiple Angle Formulae Submultiple Angles Trigonometric Ratios of Angle A/2 Trigonometric Ratios of Angle A/3 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Tangents and Cotangents of Multiples or Submultiples Graphs of Trigonometrical Functions Graph of y = sin x Graph of y = cos x Graph of y = tan x Graph of y = csc x Graph of y = sec x Graph of y = cot x Trigonometric Equations General solution of the equation sin x = ½ General solution of the equation cos x = 1/√2 General solution of the equation tan x = √3 General Solution of the Equation sin θ = 0 General Solution of the Equation cos θ = 0 General Solution of the Equation tan θ = 0 General Solution of the Equation sin θ = sin ∝ General Solution of the Equation sin θ = 1 General Solution of the Equation sin θ = -1 General Solution of the Equation cos θ = cos ∝ General Solution of the Equation cos θ = 1 General Solution of the Equation cos θ = -1 General Solution of the Equation tan θ = tan ∝ General Solution of a cos θ + b sin θ = c Trigonometric Equation Formula Trigonometric Equation using Formula General solution of Trigonometric Equation Problems on Trigonometric Equation Inverse Trigonometric Functions General and Principal Values of sin-1x General and Principal Values of cos-1x General and Principal Values of tan-1x General and Principal Values of csc-1x General and Principal Values of sec-1x General and Principal Values of cot-1x Principal Values of Inverse Trigonometric Functions General Values of Inverse Trigonometric Functions arcsin(x) + arccos(x) = π/2 arctan(x) + arccot(x) = π/2 arctan(x) + arctan(y) = arctan\(\frac { x+y }{1-xy} \) arctan(x) – arctan(y) = arctan\(\frac { x-y }{1+xy} \) arctan(x) + arctan(y) + arctan(z)= arctan\(\frac { x+y+z-xyz }{1-xy-yz-xz} \) arccot(x) + arccot(y) = arccot\(\frac { xy-1 }{y+x} \) arccot(x) – arccot(y) = arccot\(\frac { xy+1 }{y-x} \) arcsin(x) + arcsin(y) = arcsin(x√1-y2±y√1-x2) arcsin (x) – arcsin(y) = arcsin(x√1-y2–y√1-x2) arccos (x) + arccos(y) = arccos(xy-√1-x2.√1-y2) arccos(x) – arccos(y) = arccos(xy+√1-x2.√1-y2) 2 arcsin(x) = arcsin(2x.√1-x2) 2 arccos(x) = arccos(2x2-1) 2 arctan(x) = arctan(2x/1-x2) = arcsin(2x/1+x2) = arccos((1-x2)/(1+x2) 3 arcsin(x) = arcsin(3x – 4x3) 3 arccos(x) = arccos(4x3 -3x) 3 arctan(x) = arctan{3x – 4x3}/{1-3x2} Inverse Trigonometric Function Formula Principal Values of Inverse Trigonometric Functions Problems on Inverse Trigonometric Function Properties of Triangles The Law of Sines or The Sine Rule Theorem on Properties of Triangle Projection Formulae Proof of Projection Formulae The Law of Cosines or The Cosine Rule Area of a Triangle Law of Tangents Properties of Triangle Formulae Problems on Properties of Triangle Trigonometrical Table Finding sin Value from Trigonometric Table Finding cos Value from Trigonometric Table Finding tan Value from Trigonometric Table Table of Sines and Cosines Table of Tangents and Cotangents Coordinate Geometry What is Co-ordinate Geometry? Students taking the remedial course will have completed Pre-Algebra in the ninth grade and Algebra I in the 10th, meaning they would need to take either Algebra II or Geometry in 11th while students on the normal mathematics track will have taken Algebra I in the ninth grade and either Algebra II or Geometry in the 10th, meaning they would need to take the opposite during the 11th grade. Finally, move forward to the exercises. Interactive Lesson Activities provided help to learn the concepts in an efficient manner. Solve the Grade 11 and 12 Worked out Problems available on a frequent basis and attempt the exam with confidence and clear with flying colors. Why one should learn from Grade 11 & 12 Math Lessons? (Important questions are marked) Students are expected to be acquainted with Grade 11 & 12 Math Concepts and must be able to apply them. Share with your friends.Download Class 11 Maths Notes that contains Solved Exercises Solutions, Review Exercises, MCQ's with Answers in PDF for free. Class 11 maths index page given here covers all the chapters and their sub-topics that are included in the class 11 maths book of NCERT. It should be noted that class 11 is an important phase as the syllabus topics are not only important for the class 11 exam but are also crucial for competitive exams like JEE. Why Learn This With Teachoo? Find the Solutions of Quadratic Equations by completing the square. However, the math skills required to complete the 11th grade vary depending on the difficulty of the individual students' education track and the standards of certain districts, states, regions, and countries—while advanced students may be completing their Pre-Calculus course, remedial students might still be completing Geometry during their junior year, and average students might be taking Algebra II. Rectangular Cartesian Co-ordinates Polar Co-ordinates Relation between Cartesian and Polar Co-Ordinates Distance between Two given Points Distance between Two Points in Polar Co-ordinates Division of Line Segment: Internal & External Area of the Triangle Formed by Three co-ordinate Points Condition of Collinearity of Three Points Medians of a Triangle are Concurrent Apollonius' Theorem Quadrilateral form a Parallelogram Problems on Distance Between Two Points Area of a Triangle Given 3 Points Worksheet on Quadrants Worksheet on Rectangular – Polar Conversion Worksheet on Line-Segment Joining the Points Worksheet on Distance Between Two Points Worksheet on Distance Between the Polar Co-ordinates Worksheet on Finding Mid-Point Worksheet on Division of Line-Segment Worksheet on Centroid of a Triangle Worksheet on Area of Co-ordinate Triangle Worksheet on Collinear Triangle Worksheet on Area of Polygon Worksheet on Cartesian Triangle Locus Concept of Locus Concept of Locus of a Moving Point Locus of a Moving Point Worked-out Problems on Locus of a Moving Point Worksheet on Locus of a Moving Point Worksheet on Locus The Straight Line Straight Line Slope of a Straight Line Slope of a Line through Two Given Points Collinearity of Three Points Equation of a Line Parallel to x-axis Equation of a Line Parallel to y-axis Slope-intercept Form Point-slope Form Straight line in Two-point Form Straight Line in Intercept Form Straight Line in Normal Form General Form into Slope-intercept Form General Form into Intercept Form General Form into Normal Form Point of Intersection of Two Lines Concurrency of Three Lines Angle between Two Straight Lines Condition of Parallelism of Lines Equation of a Line Parallel to a Line Condition of Perpendicularity of Two Lines Equation of a Line Perpendicular to a Line Identical Straight Lines Position of a Point Relative to a Line Distance of a Point from a Straight Line Equations of the Bisectors of the Angles between Two Straight Lines Bisector of the Angle which Contains the Origin Straight Line Formulae Problems on Straight Lines Word Problems on Straight Lines Problems on Slope and Intercept The Circle Definition of Circle Equation of a Circle General Form of the Equation of a Circle General Equation of Second Degree Represents a Circle Centre of the Circle Coincides with the Origin Circle Passes through the Origin Circle Touches x-axis Circle Touches y-axis Circle Touches both x-axis and y-axis Centre of the Circle on x-axis Centre of the Circle on y-axis Circle Passes through the Origin and Centre Lies on x-axis Circle Passes through the Origin and Centre Lies on y-axis Equation of a Circle when Line Segment Joining Two Given Points is a Diameter Equations of Concentric Circles Circle Passing Through Three Given Points Circle Through the Intersection of Two Circles Equation of the Common Chord of Two Circles Position of a Point with Respect to a Circle Intercepts on the Axes made by a Circle Circle Formulae Problems on Circle The Parabola Concept of Parabola Standard Equation of a Parabola Standard form of Parabola y2 =-4ax Standard form of Parabola x2=4ay Standard form of Parabola x2=-4ay Parabola whose Vertex at a given Point and Axis is Parallel to x-axis Parabola whose Vertex at a given Point and Axis is Parallel to y-axis Position of a Point with respect to a Parabola Parametric Equations of a Parabola Parabola Formulae Problems on Parabola The Ellipse Definition of Ellipse Standard Equation of an Ellipse Two Foci and Two Directrices of the Ellipse Vertex of the Ellipse Centre of the Ellipse Major and Minor Axes of the Ellipse Latus Rectum of the Ellipse Position of a Point with respect to the Ellipse Ellipse Formulae Focal Distance of a Point on the Ellipse Problems on Ellipse The Hyperbola Definition of Hyperbola Standard Equation of an Hyperbola Vertex of the Hyperbola Centre of the Hyperbola Transverse and Conjugate Axis of the Hyperbola Two Foci and Two Directrices of the Hyperbola Latus Rectum of the Hyperbola Position of a Point with Respect to the Hyperbola Conjugate Hyperbola Rectangular Hyperbola Parametric Equation of the Hyperbola Hyperbola Formulae Problems on Hyperbola Solid Geometry Solid Geometry Worksheet on Solid Geometry Theorems on Solid Geometry Theorems on Straight Lines and Plane Theorem on Co-planar Theorem on Parallel Lines and Plane Theorem of Three Perpendiculars Worksheet on Theorems of Solid Geometry Mensuration Formulas for 3D Shapes Volume and Surface Area of the Prism Worksheet on Volume and Surface Area of Prism Volume and Whole Surface Area of Right Pyramid Volume and Whole Surface Area of Tetrahedron Volume of a Pyramid Volume and Surface Area of a Pyramid Problems on Pyramid Worksheet on Volume and Surface Area of a Pyramid Worksheet on Volume of a Pyramid Become a Pro in 11th Grade & 12th Grade Math Lessons through the plenty of opportunities provided for Math Practice here. Stay in touch with our site to avail latest updates on Gradewise Math Topics, Lessons, in a matter of seconds. Get NCERT Solutions of Chapter 4 Class 11 - Complex Numbers free. Chapter 16: Probability Sample spaces (set representation) Occurrence of events, 'not', 'and' and 'or' events Mutually exclusive events Axiomatic (set theoretic) probability Connections with the theories of earlier classes Probability of 'not', 'and' and 'or' events Advantages of BYJU'S Class 11 Topic-wise Maths Lessons Each of the topics from the list mentioned above is explained in an easily understandable manner. Grade 11th & 12th Math Topics, Problems, Worksheets, Textbook Solutions Ace up your preparation by having a quick look at the complete concepts of Grade 11 and Grade 12. And understand all the topic and formulas, and by applying that formulas or methods you will have to practice their example questions. These topic-wise index page can be beneficial for students to go through all the topics easily quickly. Let's move forward to further tips. Let's discuss some important tips for preparing exams of mathematics subject. Sufficient Problems are inserted in Worksheets so that you can choose them depending on levels such as beginner, advanced, hard, etc. Convert between degree and radian measures. Assess your strengths and weaknesses taking the help of the 11th & 12th Grade Math Problems and Answers, Worksheets, Practice Tests, etc. The Negative and Associated angles Trigonometrical Ratios of Compound Angles Trigonometrical Ratios General Solutions of Trigonometrical Equations Multiple and Sub-multiple Angles Graphs of Trigonometrical Functions Properties of Triangles Plane Analytical Geometry, Mensuration & Solid Geometry In 11 and 12-grade math, these are the topics that are covered in Plane Analytical Geometry, Mensuration & Solid Geometry. Go through the following steps to learn about the advantages of Grade 11 & 12 Math Topics listed here. Grade 11 and 12 Math Topics cover the lessons belonging to absolute value, systems of equations, systems of inequalities, radicals & square roots, quadratic equations, graphing parabolas & quadratic functions, polynomials, factoring trinomials, etc. These CBSE maths syllabus topics are covered in an easy to understand the way to help students have a deeper understanding of the topics. Master Class 11 - Maths with comprehensive NCERT Solutions, Practice Questions, MCQs, Sample Papers, Case Based Questions, and ... Practice every question of an exercise one by one and if you see a question has many similar parts then you can skip some of them and practice only those parts they are unique or a little bit tough for you. Standard equations and simple properties of − Standard equation of a circle Chapter 12: Introduction to Three–dimensional Geometry Three–dimensional Geometry Coordinate axes and coordinate planes in three dimensions Distance between two points Unit-IV: Calculus Chapter 13: Limits and Derivatives Limits Derivatives Limits of the trigonometric functions Algebra of the derivative of the function Unit-V: Mathematical Reasoning Chapter 14: Mathematical Reasoning Introduction to Mathematical Reasoning Mathematically acceptable statements Connecting words/ phrases Validating the statements involving the connecting words difference between contradiction, converse and contrapositive Unit-VI: Statistics and Probability Chapter 15: Statistics Introduction to Statistics Standard deviation of ungrouped/grouped data Analysis of frequency distributions with equal means but different variances. Still, no matter the level of aptitude a student has in mathematics, he or she is required to meet demonstrate a certain level of understanding of core concepts of the field including those associated with Algebra and Geometry as well as statistics and financial math. And if you are a teacher, you should recommend this site to your class students to help them to get maximum marks in exams and share this site with your colleagues.Useful? I recommend you should do questions yourself and if you find any difficulty simply skim the solution from our class 11 math notes.If you find this page or website helpful, do share with your friends and family. You can check the detailed explanation of all questions of exercises, examples and miscellaneous by clicking on the Exercise link below. Identify and Analyze the Graphs of Logarithmic Functions. The topics of the chapter include Solving Quadratic equation where root is in negative. Advanced students, on the other hand, have already completed all of the subjects listed above by the end of the 10th grade and are thus ready to begin understanding the complex mathematics of Pre-Calculus. As a result, if you do any topic, you have all the idea of what is done in a question because everything will be gone through from you. Try to spread love to your loving ones. You can do all the exercise in this manner. NCERT Solutions of Chapter 3 Class 11 Trigonometry is available free at teachoo. With graduation a year away, students are expected to have a nearly comprehensive knowledge of most core math skills that will be needed for higher education in university mathematics, statistics, economics, finance, science, and engineering courses. You can access the Learning Materials irrespective of your busy schedules. If you have any questions left unanswered do drop us your queries so that we can look into them and resolve them as soon as possible. The main units in CBSE class 11 maths syllabus are: Unit – I: Sets and Functions Chapter 1: Sets Sets and Their Representations Subsets of a set of real numbers especially intervals (with notations) Union and Intersection of Sets Chapter 2: Relations & Functions Ordered pairs and Cartesian product of sets Number of elements in the cartesian product of two finite sets Cartesian product of the sets of real (up to R × R) Domain, Co-domain and Range of a relation Function as a special kind of relation from one set to another Pictorial representation of a function, domain, co-domain and range of a function Real valued functions, domain and range of these functions − Constant Identity Polynomial Rational Modulus Signum Exponential Logarithmic Greatest integer functions (with their graphs) Sum, difference, product and quotients of functions Chapter 3: Trigonometric Functions Introduction to Trigonometric Functions Positive and negative angles Measuring angles in radians and in degrees and conversion of one into other Definition of trigonometric functions with the help of unit circle Truth of the sin2x + cos2x = 1, for all x Signs of trigonometric functions Domain and range of trigonometric functions Graphs of Trigonometric Functions Expressing sin (x±y) and cos (x±y) in terms of sinx, siny, cosx & cosy and their simple application Identities related to sin 2x, cos2x, tan 2x, sin3x, cos3x and tan3x General solution of trigonometric equations of the type sin y = sin a, cos y = cos a and tan y = tan a Unit – II: Algebra Chapter 4: Principle of Mathematical Induction Introduction to Principle of Mathematical Induction Process of the proof by induction − Motivating the application of the method by looking at natural numbers as the least inductive subset of real numbers The principle of mathematical induction and simple applications Chapter 5: Complex Numbers and Quadratic Equations Need for complex numbers, especially √1, to be motivated by inability to solve some of the quadratic equations Algebraic properties of complex numbers Argand plane and polar representation of complex numbers Statement of Fundamental Theorem of Algebra Solution of quadratic equations in the complex number system Square root of a complex number Chapter 6: Linear Inequalities Introduction to Linear inequalities Algebraic solutions of linear inequalities in one variable and their representation on the number line Graphical solution of linear inequalities in two variables Graphical solution of system of linear inequalities in two variables Chapter 7: Permutations and Combinations Introduction to Permutations and Combinations Fundamental principle of counting (n!) Permutations and combinations Derivation of formulae and their connections Chapter 8: Binomial Theorem Statement and proof of the binomial theorem for positive integral indices General and middle term in binomial expansion Chapter 9: Sequence and Series Arithmetic Progression (A.P.) Geometric Progression (G.P.) Arithmetic and Geometric series infinite G.P. and its sum Relation between A.M. and G.M. Unit – III: Coordinate Geometry Chapter 10: Straight Lines Introduction to Straight Lines Brief recall of two dimensional geometries from earlier classes Slope of a line and angle between two lines Various forms of equations of a line − General equation of a line Equation of family of lines passing through the point of intersection of two lines Distance of a point from a line Chapter 11: Conic Sections Hyperbola − a point, a straight line and a pair of intersecting lines as a degenerated case of a conic section. You just need to click on the quick links available for the corresponding topics so that you can learn them completely. These topics covered in this index page contains all the syllabus concepts that are prescribed by the CBSE. They are as such Student Paced Learning Promotes effective learning alongside reduces anxiety in students. Also, get several class-wise maths sample papers, question papers, formulas and other study materials for additional assistance in mathematics preparation. Algebra In 11 and 12 Grade Math these are the topics that are covered in Algebra. All questions, including examples and miscellaneous have been solved and divided into different Concepts, with questions ordered from easy to difficult. Why Learn This With Teachoo? Math Objectives for 11th & 12th Grade Curriculum Depending on the 11th & 12th Grade Math Curriculums you have to meet certain guidelines and they are as follows To be able to Solve One Variable Linear Inequalities including Compound Inequalities, represent solutions set both algebraically and graphically. And it will be easy to prepare it from our class 11 math notes.Furthermore, talking about the exercises of a chapter, you must prepare from the start of the chapter. All students completing the 11th grade are expected to demonstrate their comprehension of core concepts like real numbers, functions, and algebraic expressions; income, budgeting, and tax allocations; logarithms, vectors, and complex numbers; and statistical analysis, probability, and binomials. Click on an exercise or topic to begin. Now, you are a intermediate student and you have an idea how a question paper will be and how will you prepare for it. Keep visiting BYJU'S to get all the maths index pages for all the classes and prepare more effectively. Variation Arithmetic Progression Geometric Progression Surds Laws of Indices Logarithms Complex Numbers Theory of Quadratic Equations Permutations Combinations Binomial Theorem for Positive Integral Index Infinite Series Trigonometry In 11 and 12-grade math, these are the topics that are covered in Trigonometry. By the time students finish the 11th grade, they should be able to practice and apply several core mathematics concepts, which include subject matter learned from Algebra and Pre-Calculus courses. We had learned Basics of Trigonometry in Class 10. Look no further and take your preparation to the next level. All the Grade 11 and Grade 12 Math Topics explained are as per the latest textbooks and are given by subject experts. Defining complex numbers - z = a + ib Solving when two complex numbers are equal Solving Identities of complex numbers (Square, Cube of 2 complex numbers) Addition, subtraction, multiplication and division of complex numbers Power of i (odd power and even power) Modulus and Conjugate of a complex number, and the property Finding multiplicative inverse Finding modulus and argument of a complex number, and representing it in polar form Also, doing some proof questions Check the solutions by clicking on an exercise or topic below. In terms of statistics, students should be able to summarize and interpret data in meaningful ways; define probability, linear and nonlinear regression; test hypotheses using Binomial, Normal, Student-t and Chi-square distributions; use the fundamental counting principle, permutations, and combinations; interpret and apply normal and binomial probability distributions; and identify normal distribution patterns. Students in the advanced course of Pre-Calculus should demonstrate an ability to investigate sequences and series; understand properties and applications of trigonometric functions and their inverses; apply conic sections, sine law, and cosine law; investigate the equations of sinusoidal functions, and practice Trigonometric and circular functions. Additional information about the topics and sub-topics are also given which will not only help students to prepare for their board exams but will also help them to get confident with their preparation of JEE and other engineering entrance exams. Whichever course you opt in your High School you can get comprehensive knowledge of core math skills needed for further studies. Hence, any students of class 11 can quickly grasp and develop a deeper understanding of the fundamentals. In Algebra, students should be able to identify real numbers, functions, and algebraic expressions; understand linear equations, first degree inequalities, functions, quadratic equations and polynomial expressions; manipulate polynomials, rational expressions, and exponential expressions; illustrate the slope of a line and rate of change; use and model the distributive properties; understand Logarithmic Functions and in some cases Matrices and matrix equations; and practice use of the Remainder Theorem, the Factor Theorem, and the Rational Root Theorem. In this chapter, we will learn What is a positive or a negative angle Measuring angles in Degree, Minutes and Seconds Radian measure of an angle Converting Degree to Radians, and vice-versa Sign of sin, cos, tan in all 4 quadrants Finding values of trigonometric functions when one value is given (Example: Finding value of sin, cot, cosec, tan, sec, when cos x = -3/5 is given) Finding Value of trigonometric functions, given angle Solving questions by formula like (x + y) formula, 2x 3x formula, Cos x + cos y formula , 2 sin x sin y formula Finding principal and general solutions of a trigonometric equation Sin and Cosine Formula with supplementary Questions Important questions are marked, and Formula sheet is also provided. Builds prior knowledge and skills through interactive lessons, exercises, practice opportunities. My first tip is: you should buy a rough register for doing the practice of mathematics solutions because the more practice you do, the more math will be easy for you. Analyze and factor the Polynomials completely. Updated for new NCERT Books - 2026 Exams. Summary Hope the information prevailing on our page regarding the 11th and 12th Grade Math has helped you to the possible extent. Depending on the aptitude of the student for the field of mathematics, he or she may choose to enter one of three education tracks for the subject: remedial, average, or expedited, each of which offers its own path to learning the basic concepts needed for completion of the 11th grade.

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