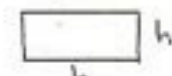


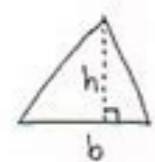
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Kouba
Basic Math Formulas

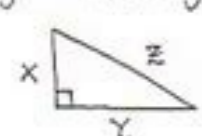
1. rectangle : area $A = bh$
perimeter $P = 2b + 2h$



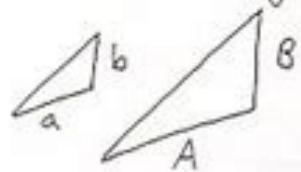
2. triangle : area $A = \frac{1}{2}bh$



3. right triangle : Pythagorean Theorem
 $x^2 + y^2 = z^2$



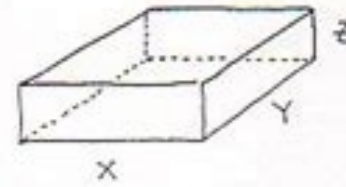
4. similar triangles : $\frac{A}{a} = \frac{B}{b}$ or $\frac{a}{b} = \frac{A}{B}$



5. circle : area $A = \pi r^2$
circumference $C = 2\pi r$



6. rectangular solid : volume $V = xyz$
surface area
 $S = 2xy + 2yz + 2xz$



Name

Date

MAKE ME 100 ANSWERS



Here is Newton's Make Me 100 challenge.

- You have to use each of the numbers between 1 and 10.
- You have to use them in order, along with any of the four operations.
- You have to end up with 100.

Here are two solutions that works – there are probably many others!

$$1 + 2 + 3 + 4 - 5 + 6 + 7 - 8 + (9 \times 10) = 100$$

$$1 \times (2 + 3 + 4 + 5 + 6 + 7 - 8 - 9) \times 10 = 100$$



- Can you do it the other way round, from 10 to 1?

Here is one solution that works – there are probably many others!

$$10 \times 9 + 8 + 7 - 6 + 5 - 4 + 3 - 2 - 1 = 100$$

Extra practice for ch2

① A) 4 B) -4 C) $+\infty$ D) $-\infty$

More on limits, continuity, and differentiability

① $R(t)$ is not continuous at $t=0$

It is not removable. ()

② Similar to #4 in the previous section

③ $A = 0$
 $B = 0.9$

④ $f(x) = -2|x| + \sqrt{1-4x^2+4|x|}$

(B) $f(x) = -2x + \sqrt{1-4x^2+4x}$ for $x > 0$
 $f(x) = -2(-x) + \sqrt{1-4x^2-4x}$ for $x < 0$



Draw the tangent line at $(0,1)$
 $y=1$
left hand slope of \ominus = right hand slope at $x=0$
 $\rightarrow f(x)$ is differentiable at $x=0$

Table with 2 columns: Page, Topic

Slope formula	$\text{slope, } m = \frac{\text{change in } y}{\text{change in } x} = \frac{\text{rise}}{\text{run}} = \frac{y_2 - y_1}{x_2 - x_1}$
	Parallel lines have equal slopes. The slopes of perpendicular lines are opposite reciprocals of each other
General Form	$Ax + By = C$
Slope Intercept Form	$y = mx + b$ where m is the slope and b is the y -intercept
Point Slope Form	$(y - y_1) = m(x - x_1)$ where m is the slope
Midpoint Formula	$\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$
Distance Formula	$\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$

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Algebra 1 Calculus Also known as "High School Algebra" OK. So what are you going to learn here? You will learn about Numbers, Polynomials, Inequalities, Sequences and Sums, many types of Functions, and how to solve them. You will also gain a deeper insight into Mathematics, get to practice using your new skills with lots of examples and questions, and generally improve your mind. With your new skills you will be able to put together mathematical models so you can find good quality solutions to many tricky real world situations. Near the end of most pages is a "Your Turn" section ... do these! You need to balance your reading with doing. Answering questions helps you sort things out in your mind. And don't guess the answer; use pen and paper and try your best before seeing the solution. Language So what is this thing called Mathematics? And how do you go about learning it? Sets Next, we need to think about mathematics in terms of sets. Numbers Now we know what a set is, let us look at different sets of numbers that are useful: Inequalities "Equal To" is nice but not always available. Maybe we only know that something is less than, or greater than. So let's learn about inequalities. $a \geq b$ Exponents We will be using exponents a lot, so let's get to know them well. Polynomials Polynomials were some of the first things ever studied in Algebra. They are simple, yet powerful in their ability to model real world situations. Degree (of an Expression) Special Binomial Products Difference of Two Cubes Rational Expressions Using Rational Expressions Graphing Polynomials Equations And, of course, we need to know about equations ... and how to solve them. Graphs Graphs can save us! They are a great way to see what is going on and can help us solve many things. But we need to be careful, as they sometimes don't give the full story. Linear Equations They are just equations for lines. But they come in many forms. Functions A function relates an input to an output. But from that simple foundation many useful things can be built. What is a Function? Domain, Range and Codomain Equations of Second Degree "Second degree" just means the variable has an exponent of 2, like x^2 . It is the next major step after linear equations (where the exponent is 1, like x). Solving We already have experience in solving, but now we can learn more! Solving Inequalities We learned about inequalities above, now let's learn how to solve them. Exponents and Logarithms We already know about exponents ... well logarithms just go the other way. And together they can be very powerful. Systems of Linear Equations What happens when we have two or more linear equations that work together? They can often be solved! It isn't very hard but can take a lot of calculations. Systems of Linear Equations Solving Systems of Linear Equations Using Matrices Systems of Linear and Quadratic Equations Probability Is it likely? You be the judge! Probability The Basic Counting Principle Combinations and Permutations Sequences, Series and Partial Sums A Sequence is a set of things (usually numbers) that are in order. We can also sum up a series, where Sigma Notation is very useful. Finally These last few subjects use what we have learned above. Partial Fractions Mathematical Induction Pascal's Triangle Binomial Theorem And that is all! But there are many other interesting algebra topics such as: Copyright © 2020 MathsisFun.com Free intermediate and college algebra questions and problems are presented along with answers and explanations. Free worksheets to download are available. Support maintaining this website by sending a gift through Paypal and using my e-mail: abdelkader.a@gmail.com Algebra Questions to practice for tests. NEW Algebra 2 Problems with solutions NEW Complex Fractions with Variables NEW Support maintaining this website by sending a gift through Paypal and using my e-mail: abdelkader.a@gmail.com Algebra Problems. Intermediate Algebra Problems With Answers - sample 1: equations, system of equations, percent problems, relations and functions. Intermediate Algebra Problems With Answers - sample 2: Find equation of line, domain and range from graph, midpoint and distance of line segments, slopes of perpendicular and parallel lines. Intermediate Algebra Problems With Answers - sample 3: equations and system of equations, quadratic equations, function given by a table, intersections of lines, problems. Intermediate Algebra Problems With Answers - sample 4: Functions, domain, range, zeros. Intermediate Algebra Problems With Answers - sample 5. Scientific Notation Intermediate Algebra Problems With Answers - sample 6. Equations of Lines Intermediate Algebra Problems With Answers - sample 7. Slopes of Lines Intermediate Algebra Problems With Answers - sample 8. Absolute Value Expressions Intermediate Algebra Problems With Answers - sample 9. Solve Absolute Value Equations Intermediate Algebra Problems With Answers - sample 10. Solve Absolute Value Inequalities Intermediate Algebra Problems With Answers - sample 11. Simplify Algebraic Expressions by Removing Brackets Intermediate Algebra Problems With Answers - sample 12. Simplify Algebraic Expressions with Exponents sample 1: Quadratic Functions. sample 2: Composite and Inverse Functions. sample 3: Exponential and Logarithmic Functions. sample 4: Graphs of Functions. sample 5: Find Domain and Range of Functions. sample 6: Problems on Polynomials: Graphs, Factoring, Finding, Multiplying, Dividing, Factor theorem. Zeros sample 7: Equation of Circle: Finding equations, center, radius of circles sample 8: Equation of Ellipse: Finding equations, foci, center, vertices of ellipses sample 9: Equation of Parabola: Finding equations, focus, vertex, axis, directrix of parabola. sample 10: Equation of Hyperbola: Finding equations, foci, center and vertices of hyperbola. Direct Ad Sales report this ad The topics are Algebra Review, Graphs, Functions and their Graphs, Equations and Inequalities, Polynomial and Rational Functions, Exponential and Logarithmic Functions, Systems of Equations, Sequence, Series and Binomial Theorem. UNIT 0 - BASICS: Remembrance of Things Past Lecture 1: NUMBERS Sets of Objects [4 min.] Natural Numbers [7 min.] Integers [5 min.] Rational Numbers [13 min.] Irrational Numbers [2 min.] Real Numbers [1 min.] The Real Line: From Numbers to Points [4 min.] Real Numbers are Ordered [19 min.] The Real Line: Distance Between Points [8 min.] Real Numbers as Decimals [11 min.] Lecture 2: THE LANGUAGE OF MATHEMATICS Learning to Read Mathematics [7 min.] Some Symbols of Algebra [9 min.] Nouns, Pronouns, & The Main Verb of Algebra [4 min.] Theorems, Corollaries, Lemmas, and All That [7 min.] Lecture 3: THE POWERS THAT BE: EXPONENTS Integer Exponents [12 min.] Operations with Integer Exponents [31 min.] Square Roots: A Pair Of Equal Factors [13 min.] Nth Roots & Rational Exponents [12 min.] Operations with Rational Exponents [2 min.] Lecture 4 Part 1: POLYNOMIAL EXPRESSIONS What is a Polynomial? [18 min.] Adding & Subtracting Polynomials [19 min.] A Common Error [5 min.] Handy Polynomial Products [15 min.] Un-Multiplying (Factoring) Polynomials [28 min.] Completing A Perfect Square [10 min.] Lecture 4 Part 2: POLYNOMIAL EXPRESSIONS Dividing Polynomials: Rational Expressions [24 min.] The Art of Simplification [14 min.] Solving Some Polynomial & Rational Equations [46 min.] Lecture 5: MORE NUMBERS and GEOMETRY Beyond Real Numbers: Complex Numbers [19 min.] Some Area Formulas [8 min.] The Pythagorean Theorem & A Visual Proof [12 min.] UNIT 1 - GRAPHS Lecture 6: GRAPHS Rectangular Coordinates: Geometry Meets Algebra [11 min.] Distance Between Points [18 min.] Midpoint of a Line Segment [7 min.] Your Graphing Device [17 min.] Lecture 7: GRAPHS Graphs of Equations [25 min.] Intercepts: Crossing the Axes [12 min.] Symmetry of Graphs [14 min.] Lines: Defining "Slope" [34 min.] Lecture 8: GRAPHS Lines & Their Equations [24 min.] Parallel & Perpendicular Lines [26 min.] Circles & Their Equations [28 min.] Lecture 9: FUNCTIONS AND THEIR GRAPHS Functions: The Central Idea of Mathematics [26 min.] The Language & Notation of Functions [20 min.] More On Domains [19 min.] Function Notation Practice [16 min.] Lecture 10: FUNCTIONS AND THEIR GRAPHS Visualizing Functions: Graphs of $(x, f(x))$ Pairs [26 min.] Increasing & Decreasing Functions [23 min.] Local Maximums & Local Minimums [18 min.] Even & Odd Functions [20 min.] Lecture 11: FUNCTIONS AND THEIR GRAPHS A Library of Important Functions [20 min.] Piecewise Defined Functions [19 min.] Some Exercises Explained [11 min.] Lecture 12: FUNCTIONS AND THEIR GRAPHS Graphing Techniques: Vertical & Horizontal Shifts [28 min.] Graphing Techniques: Compressions & Stretches [27 min.] Graphing Techniques: Reflections Across the Axes [17 min.] Putting It All Together: Moving The Graphs of Functions Around The Plane [36 min.] Lecture 13: FUNCTIONS AND THEIR GRAPHS The Algebra of Functions [16 min.] A New Operation Unique To Functions: Composition [24 min.] Lecture 14: FUNCTIONS AND THEIR GRAPHS Mathematical Models of Real World Problems: Constructing Functions [55 min.] UNIT 3 - EQUATIONS & INEQUALITIES Lecture 15: EQUATIONS IN 1 VARIABLE Solving Quadratic Equations (Approximately) with a Graphing Device & The Intermediate Value Theorem [44 min.] Solving Linear Equations: The "Linear Formula" or Graphing [23 min.] Solving Non-Linear Equations That Lead To Linear Equations [13 min.] Lecture 16: EQUATIONS IN 1 VARIABLE Solving Quadratic Equations: Factoring, or Graphing [11 min.] A Complex Reminder & The Principal Square Root of a Negative Number [12 min.] Solving Quadratic Equations: The "Quadratic Formula" & The Discriminant or Graphing [50 min.] Lecture 17: EQUATIONS IN 1 VARIABLE Some Linear & Quadratic Equation Exercises Explained [24 min.] Lecture 18: EQUATIONS IN 1 VARIABLE Setting Up Equations: More Mathematical Models [65 min.] Lecture 19: EQUATIONS IN 1 VARIABLE Solving "Radical" Equations [14 min.] Solving Equations "Quadratic in Form" [15 min.] Solving Factorable Equations [7 min.] Lecture 20: INEQUALITIES IN 1 VARIABLE Properties of Inequalities [20 min.] Solving Inequalities In General [17 min.] Solving Linear Inequalities [19 min.] Lecture 21: INEQUALITIES IN 1 VARIABLE Solving Quadratic Inequalities [17 min.] Solving Higher-Degree Polynomial Inequalities [14 min.] Solving Rational Inequalities [27 min.] Lecture 22: EQUATIONS & INEQUALITIES IN 1 VARIABLE When Absolute Value Appears: Equations [12 min.] When Absolute Value Appears: Inequalities [17 min.] More Exercises Explained [15 min.] Lecture 23: POLYNOMIAL FUNCTIONS Degree 2: Quadratic Functions [19 min.] Graphing Quadratic Functions [39 min.] Quadratic Functions As Mathematical Models [25 min.] Lecture 24: POLYNOMIAL FUNCTIONS Degree "n": General Polynomial Functions [8 min.] Special Case: Power Functions & Their Graphs [18 min.] Graphing General Polynomial Functions: Zeros, Multiplicity, Turning Points & End Behavior [40 min.] Lecture 25: LOCATING THE ZEROS OF A POLYNOMIAL FUNCTION How Many Zeros Are There? [12 min.] How Many Zeros Are Real? [13 min.] How Many Real Zeros Are Positive Negative? [16 min.] Where (On What Interval) Are All Real Zeros? [22 min.] How Can You Guess The Location of Real Zeros? [4 min.] How Can You Reduce The Number of Real Zeros? [21 min.] Lecture 26: LOCATING THE ZEROS OF A POLYNOMIAL FUNCTION Strategy & Tools: A Practical Checklist [14 min.] Some Polynomial Exercises Explained [22 min.] Lecture 27: RATIONAL FUNCTIONS General Rational Functions [14 min.] What Is An Asymptote? [17 min.] Finding Asymptotes of Rational Functions [35 min.] Graphing Rational Functions [19 min.] UNIT 5 - EXPONENTIAL & LOGARITHMIC FUNCTIONS Lecture 28: EXPONENTIAL FUNCTIONS One-To-One Functions [14 min.] Exponential Functions & Their Graphs [26 min.] The Natural Exponential Function [15 min.] Lecture 29: LOGARITHMIC FUNCTIONS Inverse Functions [23 min.] Logarithmic Functions & Their Graphs [24 min.] Lecture 30: LOGARITHMIC FUNCTIONS Properties of Logarithms [17 min.] All Logarithms are Natural (or Common)! [15 min.] Solving Logarithmic Equations [20 min.] Logarithmic Models: Sound (Loudness) & Fury (Earthquakes) [16 min.] Lecture 31: EXPONENTIAL FUNCTIONS (con.) Solving Exponential Equations [15 min.] Exponential Models: Compounded Interest, and Growth & Decay [32 min.] UNIT 6 - SYSTEMS OF EQUATIONS Lecture 32: SYSTEMS OF LINEAR EQUATIONS Systems of Linear Equations in General [19 min.] Solving A System of 2 (or 3) Linear Equations in 2 (or 3) Variables: Substitution [20 min.] Solving A System of 2 (or 3) Linear Equations in 2 (or 3) Variables: Elimination [36 min.] Lecture 33: SYSTEMS OF LINEAR EQUATIONS Some Exercises Explained [31 min.] An Application: Writing Proper Rational Functions As Sums of Simpler Proper Rational Functions (Partial Fractions) [43 min.] Lecture 34: SYSTEMS OF NON-LINEAR EQUATIONS Solving (Mostly Graphically) a System of 2 Non-Linear Equations in 2 Variables [14 min.] UNIT 7 - SOME DISCRETE TOPICS Lecture 35: SEQUENCES Infinite Sequences: Functions With Domain N [28 min.] The Factorial Symbol: [8 min.] Adding The First n Terms of a Sequence: nth Partial Sums & Summation Notation [17 min.] Lecture 36: SEQUENCES Arithmetic Sequences: Adding Your Way to Infinity [18 min.] Geometric Sequences: Multiplying Your Way to Infinity [30 min.] Lecture 37: SERIES & INDUCTION Geometric Series & Their (Infinite) Sums [26 min.] The Principle of Mathematical Induction [30 min.] Lecture 38: THE BINOMIAL THEOREM The "Binomial Coefficient" Symbol [11 min.] Pascal's Triangle [19 min.] The Binomial Theorem: How to Expand $(x+a)^n$ [32 min.] THE X-Y FILES: The Proof is in Here Lecture 39 FOR UNIT 0 [29 min.] A Proof That Squareroot 2 Is Irrational [6 min.] A Proof That There Are The Same Number of Rational Numbers as Natural Numbers! [9 min.] A Proof That There Are More Real Numbers Than Natural Numbers! [14 min.] FOR UNIT 4 [21 min.] Algebra For Science: Variation [17 min.] FOR UNIT 4 [21 min.] How Can You Find Rational Zeros (if any) of a Polynomial Function? [21 min.] FOR UNIT 7 [19 min.] A Proof That "e" Is Irrational [19 min.] Try the free Mathway calculator and problem solver below to practice various math topics. Try the given examples, or type in your own problem and check your answer with the step-by-step explanations. We welcome your feedback, comments and questions about this site or page. Please submit your feedback or enquiries via our Feedback page.

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