exponential and logarthmic functions khan academy - learn about logarithms which are the inverses of exponents use logarithms to solve various equations then analyze both logarithmic and exponential functions and their graphs, word problems exponential decay algebralab - exponential decay is generally applied to word problems that involve financial applications as well as those that deal with radioactive decay medicine dosages and population decline to decay exponentially means that the topic being studied is decreasing in proportion to the amount that was previously present the following is an example of an exponential decay problem, exponential functions she loves math - these parent graphs can be transformed like the other parent graphs in the parent functions and transformations section and in the transformations inverses compositions and inequalities of exponents logs section exponential function applications here are some compounding formulas that you II use in working with exponential applications the second set of formulas are based on the first, logarithmic functions she loves math - special logarithms most of the logarithms that you Il work with have either a base of 10 because we II deal in base 10 with our counting system or base e a logarithm with base 10 is called a common logarithm and when you see log without a small subscript for the base you assume it is base 10 thus log left 1000 right 3 and log 10 left 1000, understanding and solving logarithms science site - using the above values it is only necessary to remember one main number in order to obtain an accurate estimate of the logarithm of any number the points plotted in the above graph include the values of n stated above for the intermediate points, word problems exponential growth algebralab - exponential growth is generally applied to word problems such as compound interest problems and population growth problems to grow exponentially means that the topic being studied is increasing in proportion to what was previously there for example money deposited in the bank earns interest that is added to the money previously in the bank. exponential functions compound interest purplemath com - one very important exponential equation is the compound interest formula where a is the ending amount p is the beginning amount or principal r is the interest rate expressed as a decimal n is the number of compoundings a year and t is the total number of years regarding the variables n refers to the number of compoundings in any one year not to the total number of, word problems khan academy - learn for free about math art computer programming economics physics chemistry biology medicine finance history and more khan academy is a nonprofit with the mission of providing a free world class education for anyone anywhere, indices and logarithms amsi motivation indices provide a compact algebraic notation for repeated multiplication for example is it much easier to write 3.5 than 3 3 3 3 3 once index notation is introduced the index laws arise naturally when simplifying numerical and algebraic expressions, math lessons and interactive quizzes - mathquide has been offering a variety of mathematics lessons and quizmasters for free see below since 1999 this has amounted to well over a decade of dynamic graphics driven mathematics education for the global internet community, 1 definitions exponential and logarithmic functions - 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