

### **solving exponential logarithmic equations pdf**

Solving Exponential & Logarithmic Equations Properties of Exponential and Logarithmic Equations Let be a positive real number such that , and let and be real numbers. Then the following properties are true: 1. 2. Inverse Properties of Exponents and Logarithms Base a Natural Base e 1. 2. Solving Exponential and Logarithmic Equations 1.

### **Solving Exponential and Logarithmic Equations**

Exponential & Logarithmic Equations This chapter is about using the inverses of exponentials or logarithms to solve equations involving exponentials or logarithms. Solving exponential equations An exponential equation is an equation that has an unknown quantity, usually called x, written somewhere in the exponent of some positive number.

### **Exponential & Logarithmic Equations - Math**

Steps for Solving Logarithmic Equations Containing Terms without Logarithms Step 1 : Determine if the problem contains only logarithms. If so, stop and use Steps for Solving Logarithmic Equations Containing Only Logarithms. If not, go to Step 2.

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Answers to 3.4 Solving Exponential and Logarithmic Equations (ID: 1) 1)  $\{a^4 5\}$  2) No solution. 3)  $\{3 4\}$  4)  $\{15 14\}$  5) 2.4729 6) 1.9739 7) 6.8503 8)  $a^{0.1854}$  9)  $a^{0.1945}$  10) 0.2553 11) 3.4583 12) 2.8791 13) 1.2131 14)  $a^{1.0273}$  15)  $a^{2.167}$  16) 0.5383 17)  $\{1\}$  18)  $\{1\}$  19)  $\{a^4\}$  20)  $\{96\}$  21) No solution.

### **3.4 Solving Exponential and Logarithmic Equations**

I develop solving equations with these functions by discussing how the process is just like solving any algebraic equation. Students come into class with 3 algebraic problems to solve. These problems demonstrate the main methods used to solve logarithmic and exponential functions.

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Steps for Solving Exponential Equations with the Same Base Step 1 : Determine if the numbers can be written using the same base. If so, go to Step 2.

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We now have an exponential equation that can be solved by our earlier techniques.  $\log_2 t \log(1.06) t \log 1.06$  or  $t 11.9$  years It takes just a little less than 12 years for the money to double.  $\log_2 \log 1.06 A P r 1 n nt$  The following algorithm summarizes our work with solving exponential equations. Because the interest is compounded once a year,  $n 1$ .

### **11.5 Logarithmic and Exponential Equations**

Solve each equation. Round your answers to the nearest ten-thousandth. 1)  $3 b = 17$  2)  $12 r = 13$  3)  $9n = 49$  4)  $16 v = 67$  ... Solving Exponential Equations with Logarithms Date \_\_\_\_\_ Period \_\_\_\_\_ Solve each equation. Round your answers to the nearest ten-thousandth. 1)  $3 b = 17$  2.5789 2)  $12 r = 13$

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