

- | | |
|--|--|
| a) $\log_{\frac{1}{5}}(5x-1) \geq 0$ | k) $\log_{\frac{1}{3}}(x+1) > \log_3(2-x)$ |
| b) $\log_5(3x-1) < 1$ | l) $\log_{\frac{1}{3}}x > \log_x 3 - \frac{5}{2}$ |
| c) $\log \frac{6}{x} > \log(x+5)$ | m) $2\log_5 x - \log_x 125 < 1$ |
| d) $\log_7 \frac{2x-6}{2x-1} > 0$ | n) $\log_{x-2}(10-3x) < 2$ |
| e) $\log_{0.5}^2 x + \log_{0.5} x - 2 \leq 0$ | o) $\frac{1 - \log_4 x}{1 + \log_2 x} \leq \frac{1}{2}$ |
| f) $\log_3 3-4x > 2$ | p) $\log_x(x^3 - x^2 - 2x) < 3$ |
| g) $\log_2 x \leq \frac{2}{\log_2 x - 1}$ | q) $\log_{\frac{1}{x}}(2.5x-1) \geq -2$ |
| h) $\log_{\frac{1}{3}} \frac{2-3x}{x} \geq -1$ | r) $\log^2 x \geq \log x + 2$ |
| i) $\frac{\log_2(x+1)}{x-1} > 0$ | s) $\log_{\frac{1}{2}} \left(\log_3 \frac{x+1}{x-1} \right) \geq 0$ |
| j) $\log_{\frac{1}{2}} \left(\log_8 \frac{x^2-2x}{x-3} \right) > 0$ | t) $\left(\frac{x}{10} \right)^{\log x - 2} < 100$ |

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Express the equation in logarithmic form (a) $4^4=256$. That is, write your answer in the form $\log_4 A = B$. Then A and B (b) $10^{(-2)} = 0.01$. That is, write your answer in the form $\log_{10} C = D$. Then...

Logarithm Questions and Answers | Study.com

Check if the potential answers found above are possible answers by substituting them back to the original logarithmic equations. You should be convinced that the ONLY valid solution is $\log_2 x = \frac{1}{2}$ which makes $\log_2 x = -\frac{1}{2}$ an extraneous answer.

Solving Logarithmic Equations - ChiliMath

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Consider a slightly more complicated logarithmic equation: $\log_b f(x) = a \log_b f(x) = a$. Here, again, the base of the logarithm, b , is a positive number, $b \neq 1$, and $f(x)$ is some elementary algebraic function.

How to Solve Logarithmic Equations in Algebra | Albert.io

This algebra video tutorial explains how to solve logarithmic equations with logs on both sides. It explains how to convert from logarithmic form to exponent...

Solving Logarithmic Equations - YouTube

Now that we have looked at a couple of examples of solving logarithmic equations containing only logarithms, let's list the steps for solving logarithmic equations containing only logarithms. $3 \log_7(x^3) \log_7(5x^9) = 7$

$$\log((x^2)(x^3)) \log_{14} - + = (x^2)(x^3) - 14 + = 2$$

Solving Logarithmic Equations

Logarithmic Equations We have already seen that every logarithmic equation $\log_b(x) = y$ is equivalent to the exponential equation $b^y = x$. We can use this fact, along with the rules of logarithms, to solve logarithmic equations where the argument is an algebraic expression.

Exponential and Logarithmic Equations* | Math for Liberal ...

Solving the Logarithmic Equations $5(\log xy + \log yx) = 26$ $xy = 64$ From (\square) , we have $5(\log xy + 1(\log xy)) = 26$ For the next step however, my book shows the following and proceeds to solving it: $(\log xy - 5)(\log yx - 1) = 0$

logarithms - Solving the Logarithmic Equations ...

Answer to: Solve the logarithmic equation for x. (Round your answer to four decimal places.) $\ln(x - 2) + \ln(x + 3) = 1$ By signing up, you'll get...

Solve the logarithmic equation for x. (Round your answer ...

Step 1: Isolate the logarithmic term before you convert the logarithmic equation to an exponential equation. Divide both sides of the original equation by 7: Step 2: Convert the logarithmic equation to an exponential equation

SOLVING LOGARITHMIC EQUATIONS

Example 3: Solve the exponential equation $2^x - 3 = 16$ by converting to logarithmic form and then isolating the variable x . LEAVE ANSWERS IN EXACT FORM, DO NOT APPROXIMATE. $2^x - 3 = 16$ $x - 3 = \log_2(16)$

$$x = \log_2(19)$$

A logarithmic equation is an equation that involves the logarithm of an expression containing a variable. To solve exponential equations, first see whether you can write both sides of the equation as powers of the same number. If you cannot, take the common logarithm of both sides of the equation and then apply property 7. Example 1

Exponential and Logarithmic Equations - CliffsNotes

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In general, we can describe using the definition of a logarithm to solve logarithmic equations as follows: For any algebraic expression S and real numbers b and c , where $b > 0$, $b \neq 1$, $c > 0$, $\log_b(S) = c$ if and only if $bc = S$ $\log_b(S) = c$ if and only if $b^c = S$

= S

Logarithmic Equations | Intermediate Algebra

Answer to: Solve the logarithmic equation. By signing up, you'll get thousands of step-by-step solutions to your homework questions. You can also...

Solved: Solve the logarithmic equation. | Study.com

Question: Solve the equations. $4^{(x-3)} = 21$ $5^{(5x-2)} = 17$ Solving a Logarithmic Equation: In solving a logarithmic equation, apply the different Log Rules to isolate the ...

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