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Moving an exponent to the other side

How do you move an exponent to the other side.

To resolve an exponential equation, take the log on both sides and solve the variables. Example 1: Solve to X in the equation. Solution: Step 1: Take the natural log on both sides: Step 2: Simplify the left side of the above equation using Logarmica 3: Step 3: Simplify the left side of the equation The above: Since LN (e) = 1, the LN (80) equation is the exact response ex = 4.38202663467 is an approximate response because we circumvent the value of LN (80) .. Check: Check: His response in the original equation. Example 2: Solve for X in the equation solution: Step 1: Isolate the exponential term before taking the common log on both sides. So add 8 to both sides: Step 2: Faao Common Log on both sides: Step 3: Simplify the left side of the equation above using Logarmica 3: Step 4: Simplify the left side of the Equace above: Since the log (10) = 1, the above equation can be written step 5: subtract 5 on both sides of the above equation: is the exact response. x = -3.16749108729 is an approximate answer .. Check: Check your response in the original equity. Yes do. Example 3: Solve to X in the equation solution: Step 1: When you represents the graph the left side of the equation, you will notice that the graph crosses the axis X in two places. This means that the equation has two actual solutions. Step 2: Rewrite the square equation: Step 3: Factor the left side of the equation: Now it can be written Step 4: Solve to X. Note: The two-term product can only match zero if one or both two terms is zero. Step 5: Set the first factor equal to zero and resolve to X: if, and and e x = ln (2) is the exact answer or is an approximate response. Step 6: Set the second factor equal to zero and resolve to X: if, and and e x = ln (3) is the exact answer or is an approximate response. Exact responses are LN (3) and LN (2) and approximate responses are 0.69314718056 and 1.09861228867. Check: These two numbers must be the same numbers in which the graph crosses the X-axis. Notice: Why are we chosen the LN in Example 3? Because we know that LN (e) = 1. If you would like to review another example, click Example. Work the following problems. If you want to review the answer and the solution, click Answer. Problem 1: Solve to X in the equation. Answer Problem 2: Solve to X in the equation. Answer problem 3: Solve to X in the equation. PROBLEM PROBLEM 4: Solve to X in the equation. Answer Problem 5: Solve to X in the equation. Answer Problem 6: Solve to X in the equation. Reply [Menu back to exponential functions] [Go to solve logar schemes] [algebra] [trigonometry] [variables  e

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