

# Answers algebra 2 solving exponential equations

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### How to solve exponential functions in algebra 2?

**How to solve exponential equations not requiring logarithms?** To solve exponential equations without logarithms, you need to have equations with comparable exponential expressions on either side of the "equals" sign. Then you can compare the powers and solve. Note that if  $a^r = a^s$ , then  $r = s$ .

**What is the method of common bases?** Find a common base for both sides of the exponential equation. Rewrite the exponential equation with the common base on both sides of the equation using the power rule when needed. Set the exponents on both sides of the equation equal to each other. Solve the linear equation for the unknown variable.

### What is the same base method?

### What are the exponent rules in Algebra 2?

**How do you solve an exponential equation?** Step 1: Isolate the exponential expression. Step 2: Take the natural log of both sides. Step 3: Use the properties of logs to pull the  $x$  out of the exponent. Step 4: Solve for  $x$ .

**How to solve an exponential equation with different bases?** In general we can solve exponential equations whose terms do not have like bases in the following way: Apply the logarithm to both sides of the equation. If one of the terms in the equation has base 10, use the common logarithm. If none of the terms in the equation has base 10, use the natural logarithm.

**How to solve an exponent?**

**What are the 7 rules of logarithms?**

**What are the five examples of exponential equations?**

**How do you solve exponents with a common base?** Rewrite each side of the equation as a power with a common base. Use the rules of exponents to simplify, if necessary, so that the resulting equation has the form  $b^S = b^T$   $b^S = b^T$ . Use the one-to-one property to set the exponents equal to each other. Solve the resulting equation,  $S = T$ , for the unknown.

**How to find the base of an exponential equation?** If  $f(x) = ax$ , then we call  $a$  the base of the exponential function. The base must always be positive.

**What is the exponential formula in Algebra 2?** Exponential Function Formula An exponential function is defined by the formula  $f(x) = ax$ , where the input variable  $x$  occurs as an exponent. The exponential curve depends on the exponential function and it depends on the value of the  $x$ . Where  $a > 0$  and  $a$  is not equal to 1.  $x$  is any real number.

**How to solve exponential equations with variables?** Convert the exponential equation into the logarithmic form using the formula  $b^x = a \Rightarrow \log_b a = x$  and solve for the variable. Apply logarithm ( $\log$ ) on both sides of the equation and solve for the variable.

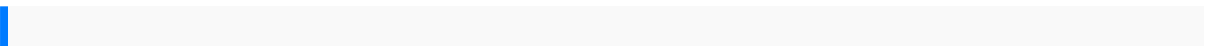
**What is a logarithmic equation in Algebra 2?** A logarithmic function is a function of the form. which is read “  $y$  equals the log of  $x$ , base  $b$ ” or “  $y$  equals the log, base  $b$ , of  $x$ .” In both forms,  $x > 0$  and  $b > 0$ ,  $b \neq 1$ . There are no restrictions on  $y$ .

**What is the formula for exponential growth in Algebra 2?** The three formulas are as follows.  $f(x) = ab^x$  for exponential growth and  $f(x) = ab^{-x}$  for exponential decay. Here ' $a$ ' is the initial quantity, ' $b$ ' is the growth or decay factor, and ' $x$ ' is the time step.  $f(x) = a(1 + r)^t$ , and  $f(x) = a(1 - r)^t$  are for exponential growth and exponential decay respectively.

**What is exponential form in Algebra 2?** The exponential form is an easier way of writing repeated multiplication involving base and exponents. For example, we can write  $5 \times 5 \times 5 \times 5$  as  $5^4$  in the exponential form, where 5 is the base and 4 is the power. In this form, the power represents the number of times we are multiplying the base by itself.

**How do we calculate exponential function?**

**What is the exponential regression formula in Algebra 2?** A General Note: Exponential Regression This returns an equation of the form  $y = ab^x$   $y = a b^x$ . Note that: b must be non-negative.



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