

## Algebra 2 Worksheet Solving Exponential Equations Answers

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### Algebra 2 Worksheet Solving Exponential

Solve each equation. 1)  $(1/6)^{2m} = 36$  2)  $32x = 33$  3)  $9 - 3x = 33$  4)  $23m - 1 = 1$  5)  $32 - 2x = 16$  6)  $63r = 6 - 3r$  7)  $(1/9)^{2n} = 27n$  8)  $53n - 2 = 125$  9)  $253k = 625$  10)  $4 - 2n = 4 - 3n$  11)  $363x = 1/6$  12)  $53n = 53n$  13)  $3 - 3n + 3 = 1$  243 14)  $42k = 42$  15)  $64 - 2r - 1 = 16 - 3r$  16)  $4 - 3n = 42n$  17)  $642x - 3 = 16$  18)  $63 - 3k = 1$  216 19)  $22k - 3 = 25$  20)  $32 - 3x = 24$

### Infinite Algebra 2 - Solving Exponential Equations Same ...

C 2 1MXaYd8e 2 Wwgi jt xh D Dlfm GfXiTnNitBeK sAolJgXe6bnr 6ar 82 W.R Worksheet by Kuta Software LLC Kuta Software - Infinite Algebra 2 Name \_\_\_\_\_ Exponential Equations Not Requiring Logarithms Date \_\_\_\_\_ Period \_\_\_\_\_ Solve each equation. 1)  $42x + 3 = 1$   $\{-3/2\}$  2)  $53 - 2x = 5 - x$   $\{3\}$  3)  $31 - 2x = 243$   $\{-2\}$

### Exponential Equations Not Requiring Logarithms

Correct answer: Explanation: Because both sides of the equation have the same base, set the terms equal to each other. Add 9 to both sides: Then, subtract 2x from both sides: Finally, divide both sides by 3: Report an Error.

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For example,  $3^2$ , this means that 3 can be multiplied twice. Basically, there are two methods of solving the exponential equation, one is relatively simple, but it requires a particular form of the exponential equation. While the other method works with a more detailed and complicated approach, it can be a bit messy too. To solve the, you need ...

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Kuta Software - Infinite Algebra 2 Name \_\_\_\_\_ 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)  $12^r = 13$  1.0322 3)  $9^n = 49$  1.7712 4)  $16^v = 67$  1.5165 5)  $3a = 69$  3.854 6)  $6r = 51$  2.1944 7)  $6n = 99$  2.5646

### Solving Exponential Equations with Logarithms

Solve each equation. 1)  $5 - 3m - 2 = 52m + 22$  2)  $5 - 2x - 1 = 5 - 2x$  3)  $64 - rx + 18 = 641 - 3r$  4)  $1/243 \cdot 2n + 3 \cdot 273n = 243 - 3n$  5)  $6x = 84$  6)  $6 \times 11n - 1 = 62$  7)  $6 \times 15a - 7 = 4$  8)  $10 \times 10 - 3p = 36$  9)  $-10 \times 12r + 1 = -7410$  2)  $2 \times 104x = 21$  11)  $8e3r - 8 + 10 = 9612$  9)  $9e4x - 10 + 2 = 43$  13)  $9e5x - 4 - 10 = 6114$  14)  $-3e - 6x - 3 - 10 = -81$  15)  $7e - 3n - 5 - 3.8 = 27.616$  5)  $5.5e6 - 6p + 1 = 88.8$  Solve each logarithmic equation.

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Solve:  $4^{x+1} = 4^9$  Step 1. Ignore the bases, and simply set the exponents equal to each other  $x + 1 = 9$  Step 2. Solve for the variable  $x = 9 - 1 \implies x = 8$  Check . We can verify that our answer is correct by substituting our value back into the original equation . .

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