

# Solving Exponential Equations

If two \_\_\_\_\_ with the \_\_\_\_\_ are \_\_\_\_\_,  
then the \_\_\_\_\_ must be \_\_\_\_\_.

$a^b$
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## Examples:

1.  $2^x = 2^5$

2 times itself \_\_\_\_\_ is **EQUAL**  
to 2 times itself \_\_\_\_\_.

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2.  $3^x = \frac{1}{81}$

3.  $2^{3x-4} = 32$

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4.  $5^{2x-1} - 12 = 113$

5.  $\left(\frac{1}{16}\right)^{x-7} = 64$