

Solving Exponential Equations

- Basic Process:
1. Get the bases the same on both sides of the equation.
 2. Set the exponents equal to each other and solve.

Examples

a. $3^x=27$

b. $6561=9^t$

c. $(-4)^m=4096$

d. $(-5)^x=-125$

e. $4^{x+3}=1024$

f. $5^{m-3}=78125$

g. $3^{2k}=81$

h. $2(4^{2x})=32$

i. $5^{3x+1}=1$

j. $25^{2x}=125^{x-1}$

k. $4^{3x} = 8^{4x-1}$

l. $9^x = 27^{x-1}$