

# THE METHOD OF COMMON BASES

## COMMON CORE ALGEBRA II



There are very few algebraic techniques that **do not involve technology** to solve equations that contain **exponential expressions**. In this lesson we will look at one of the few, known as **The Method of Common Bases**.

**Exercise #1:** Solve each of the following simple exponential equations by writing each side of the equation using a common base.

(a)  $2^x = 16$

$$\begin{aligned} 2^x &= 2^4 \\ x &= 4 \end{aligned}$$

(b)  $3^x = 27$

$$\begin{aligned} 3^x &= 3^3 \\ x &= 3 \end{aligned}$$

(c)  $5^x = \frac{1}{25}$

$$\begin{aligned} 5^x &= \frac{1}{5^2} = 5^{-2} \\ x &= -2 \end{aligned}$$

(d)  $16^x = 4$

$$\begin{aligned} 16^x &= \sqrt{16} = 16^{1/2} \\ x &= \frac{1}{2} \end{aligned}$$

In each of these cases, even the last, more challenging one, we could manipulate the right-hand side of the equation so that it shared a **common base** with the left-hand side of the equation. We can exploit this fact by manipulating both sides so that they have a common base. First, though, we need to review an exponent law.

**Exercise #2:** Simplify each of the following exponential expressions.

(a)  $(2^5)^x$

$$2^{5x} = 2^{5x}$$

(b)  $(3^2)^{4x}$

$$3^{2 \cdot 4x} = 3^{8x}$$

(c)  $(5^{-4})^{3x-7}$

$$5^{-4(3x-7)} = 5^{-12x+28}$$

(d)  $(4^{-3})^{1-x^2}$

$$4^{-3(1-x^2)} = 4^{-3+3x^2}$$

**Exercise #3:** Solve each of the following equations by finding a common base for each side.

(a)  $8^x = 32$

$$\begin{aligned} (2^3)^x &= 2^5 \\ 2^{3x} &= 2^5 \\ 3x &= 5 \\ x &= \frac{5}{3} \end{aligned}$$

(b)  $9^{2x+1} = 27$

$$\begin{aligned} (3^2)^{2x+1} &= 3^3 \\ 3^{4x+2} &= 3^3 \\ 4x+2 &= 3 \\ x &= \frac{1}{4} \end{aligned}$$

(c)  $125^x = \left(\frac{1}{25}\right)^{4-x}$

$$\begin{aligned} (5^3)^x &= (5^{-2})^{4-x} \\ 5^{3x} &= 5^{8-2x} \\ 3x &= -8+2x \\ x &= -8 \end{aligned}$$

**Exercise #4:** Which of the following represents the solution set to the equation  $2^{x^2-3} = 64$ ?

(1)  $\{\pm 3\}$

(3)  $\{\pm\sqrt{11}\}$

(2)  $\{0, 3\}$

(4)  $\{\pm\sqrt{35}\}$

$$\begin{aligned} 2^{x^2-3} &= 2^6 \\ x^2-3 &= 6 \Rightarrow x^2 = 9 \\ x &= \pm\sqrt{9} = \pm 3 \end{aligned}$$

(1)



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**Zhe Xu**



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