

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) $(2^3)^x$

$$2^{3x} = 2^{3x}$$

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

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

(c) $(5^{-1})^{3x-7}$

$$5^{-1(3x-7)} = 5^{-3x+7}$$

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

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

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

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

(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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Hussin A.Rothana



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