

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

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

(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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Kenneth Teitelbaum



Algebra 1 Common Core Answers Spring Break 2015:

Critical Issues in Democratic Schooling Kenneth Teitelbaum, 2020-04-28 Focusing on a wide range of critical issues this book provides a comprehensive analysis of the linkage of different educational ideas policies and practices to a commitment for democratic schooling Informed by significant interdisciplinary research as well as by his own extensive professional experiences as a teacher professor department chair and dean Teitelbaum examines contemporary concerns related to three broad areas 1 teaching and teacher education 2 curriculum studies and 3 multiculturalism and social justice His approach is to integrate the current and the historical the practical and the theoretical the technical and the socio political and the personal and the structural With this volume Teitelbaum considers how schools should be organized and funded what they should teach and to whom the role that teachers students and parents should play in school life and the need and prospects for schools and teacher education programs that foster meaningful learning critical reflection and social justice

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