

# Teacher version

## Unit 3: Lesson 04 Solving equations having rational & variable exponents

Many times it is desirable to "get rid" of an exponent in the process of solving an equation. For example, consider:

$$(x - 2)^3 = 5$$

Simply raise both sides to the 3 power and  $x - 2$  will be left with no exponent. From that point it is easy to solve for  $x$ .

$$\begin{aligned} [(x-2)^3]^3 &= [5]^3 \\ (x-2)^9 &= 125 \\ x-2 &= \sqrt[9]{125} \\ x &= 0.05 + 2 = \boxed{2.05} \end{aligned}$$

**Rule:** When raising both sides of an equation to an even power (or if the numerator of a fractional power is even), extraneous roots (answers) can be produced. In this case substitute prospective roots back into the original equation to see if they really work.

Example 1:  $x^{1/2} = 8$

Example 2:  $(4x)^{2/3} + 5 = 0$

$$\begin{aligned} [x^{1/2}]^2 &= [8]^2 \\ x &= [64]^{1/2} \\ x &= \pm \sqrt{64} \\ x &= \pm 8 \end{aligned}$$

$$\begin{aligned} (4x)^{2/3} &= -5 \\ [(4x)^{2/3}]^3 &= [-5]^3 \\ 4x &= \sqrt[3]{-125} \\ x &= \frac{-5}{4} \end{aligned}$$

Hand written as a "real person" would do

Teacher models notes and examples during lecture.

**Assignment:** Solve for the variable and check for extraneous roots when appropriate.

1.  $x^{2/3} - 12 = 34$

2.  $(2x - 1)^{3/4} - 2 = 0$

$$\begin{aligned} x^{2/3} &= 46 \\ [x^{2/3}]^3 &= [46]^3 \\ x &= [99376]^3 \\ x &= (\pm \sqrt[3]{99376})^3 \\ x &= (\pm 46)^3 = \boxed{\pm 97336} \end{aligned}$$

$$\begin{aligned} (2x-1)^{3/4} &= 2 \\ [(2x-1)^{3/4}]^4 &= 2^4 \\ 2x-1 &= 8 \\ 2x &= 8+1 \\ x &= \frac{9}{2} \end{aligned}$$

# Student version

## Solving equations having rational & variable exponents

Many times it is desirable to "get rid" of an exponent in the process of solving an equation. For example, consider:

Simply raise both sides to the 3 power and  $x - 2$  will be left with no exponent. From that point it is easy to solve for  $x$ .

**Rule:** When raising both sides of an equation to an even power (or if the numerator of a fractional power is even), extraneous roots (answers) can be produced. In this case substitute prospective roots back into the original equation to see if they really work.

Example 2:  $(4x)^{2/3} + 5 = 0$

Students take notes and work the examples here. Blank assignment area.

Solve for the variable and check for extraneous roots when appropriate.

2.  $(2x - 1)^{3/4} - 2 = 0$

# Absent-student version

## Solving equations having rational & variable exponents

Many times it is desirable to "get rid" of an exponent in the process of solving an equation. For example, consider:

Simply raise both sides to the 3 power and  $x - 2$  will be left with no exponent. From that point it is easy to solve for  $x$ .

$$\begin{aligned} [(x-2)^3]^3 &= [5]^3 \\ (x-2)^9 &= 125 \\ x-2 &= \sqrt[9]{125} \\ x &= 0.05 + 2 = \boxed{2.05} \end{aligned}$$

**Rule:** When raising both sides of an equation to an even power (or if the numerator of a fractional power is even), extraneous roots (answers) can be produced. In this case substitute prospective roots back into the original equation to see if they really work.

Example 2:  $(4x)^{2/3} + 5 = 0$

$$\begin{aligned} (4x)^{2/3} &= -5 \\ [(4x)^{2/3}]^3 &= [-5]^3 \\ 4x &= \sqrt[3]{-125} \\ x &= \frac{-5}{4} \end{aligned}$$

Absent student takes their notes from this version. Assigns a part of the blank area.

Solve for the variable and check for extraneous roots when appropriate.

2.  $(2x - 1)^{3/4} - 2 = 0$

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## **Table of Contents Blue Pelican Math Pre Cal Answers**

1. Understanding the eBook Blue Pelican Math Pre Cal Answers
  - The Rise of Digital Reading Blue Pelican Math Pre Cal Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Blue Pelican Math Pre Cal Answers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Blue Pelican Math Pre Cal Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Blue Pelican Math Pre Cal Answers
  - Personalized Recommendations
  - Blue Pelican Math Pre Cal Answers User Reviews and Ratings
  - Blue Pelican Math Pre Cal Answers and Bestseller Lists

5. Accessing Blue Pelican Math Pre Cal Answers Free and Paid eBooks
  - Blue Pelican Math Pre Cal Answers Public Domain eBooks
  - Blue Pelican Math Pre Cal Answers eBook Subscription Services
  - Blue Pelican Math Pre Cal Answers Budget-Friendly Options
6. Navigating Blue Pelican Math Pre Cal Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Blue Pelican Math Pre Cal Answers Compatibility with Devices
  - Blue Pelican Math Pre Cal Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Blue Pelican Math Pre Cal Answers
  - Highlighting and Note-Taking Blue Pelican Math Pre Cal Answers
  - Interactive Elements Blue Pelican Math Pre Cal Answers
8. Staying Engaged with Blue Pelican Math Pre Cal Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Blue Pelican Math Pre Cal Answers
9. Balancing eBooks and Physical Books Blue Pelican Math Pre Cal Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Blue Pelican Math Pre Cal Answers
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Blue Pelican Math Pre Cal Answers
  - Setting Reading Goals Blue Pelican Math Pre Cal Answers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Blue Pelican Math Pre Cal Answers
  - Fact-Checking eBook Content of Blue Pelican Math Pre Cal Answers
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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