



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:

$$(x-2)^{10} = 5$$

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 .

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

$$(x-2)^9 = 125$$

$$\frac{9}{x-2} = 125$$

$$x-2 = \sqrt[9]{125} = 5$$

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: $x^{10} = 5$

Example 2: $(4x)^{10} + 5 = 0$

$$[x^4]^2 \cdot x^2 = 5^2$$

$$x = [1^2]^{1/2} = \pm 1$$

$$(4x)^4 \cdot x^2 = -5$$

$$[4x^2]^4 \cdot [-5]^{1/2} = 0$$

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.

$$1. x^{10} - 18 = 54$$

$$x^{10} = 52$$

$$[x^4]^2 \cdot [x^2]^2 = 52$$

$$x^2 = [52]^{1/2}$$

$$x = (\pm \sqrt{52})^2 = 24(5)^2$$

$$2. (2x-1)^{10} - 2 = 0$$

$$(2x-1)^{10} = 2$$

$$[(2x-1)^2]^5 = 2^2$$

$$2x-1 = \sqrt[5]{2}$$

$$2x = 2 + 1$$

$$x = \frac{3}{2}$$

Student version

Solving equations having rational & variable exponents

To "get rid" of an exponent in the process of solving an equation, 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 .

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

Example 1: $(4x)^{10} + 5 = 0$

It is better to take notes and work the examples here. Blank assignment area.

Solve for extraneous roots when appropriate.

2. $(2x-1)^{10} - 2 = 0$

Absent-student version

Solving equations having rational & variable exponents

To "get rid" of an exponent in the process of solving an equation, 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 .

$$[x^4]^2 \cdot x^2 = 5^2$$

$$125$$

$$125 = 5$$

$$x = \pm 1$$

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

Example 2: $(4x)^{10} + 5 = 0$

$$(4x)^4 \cdot x^2 = -5$$

$$[4x^2]^4 \cdot [-5]^{1/2} = 0$$

It is better to take notes and work the examples here. Blank assignment area.

Solve for extraneous roots when appropriate.

2. $(2x-1)^{10} - 2 = 0$

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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 eBook 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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