



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

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

$$x = [5^2]^{1/2} = \sqrt{25}$$

$$(4x)^4 \cdot x^6 = -5$$

$$[4x^7]^4 = [-5]^{1/4}$$

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.

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

$$x^{10} = 52$$

$$[x^5]^2 = [52]^2$$

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

$$x = (\pm \sqrt[5]{52})^2 = \pm \sqrt[10]{52^2}$$

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

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

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

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

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

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

Student version

Solving equations having rational & variable exponents

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

the 3 power and $x-2$ will be left with no exponent. 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 an equation to an even power (or if power is even), extraneous roots. In this case substitute prospective roots back into the original equation to see if they really work.

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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:

the 3 power and $x-2$ will be left with no exponent. It is easy to solve for x .

$$[x^5]^2 = 5^2$$

$$125$$

$$5$$

$$5^2 = 25$$

It is an equation to an even power (or if power is even), extraneous roots. In this case substitute prospective roots back into the original equation to see if they really work.

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

$$(4x)^4 \cdot x^6 = -5$$

$$[4x^7]^4 = [-5]^{1/4}$$

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

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Table of Contents Blue Pelican Math Teacher Version Algebra 1 Unit 8

1. Understanding the eBook Blue Pelican Math Teacher Version Algebra 1 Unit 8
 - The Rise of Digital Reading Blue Pelican Math Teacher Version Algebra 1 Unit 8
 - Advantages of eBooks Over Traditional Books
2. Identifying Blue Pelican Math Teacher Version Algebra 1 Unit 8
 - 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 Teacher Version Algebra 1 Unit 8
 - User-Friendly Interface
4. Exploring eBook Recommendations from Blue Pelican Math Teacher Version Algebra 1 Unit 8

- Personalized Recommendations
- Blue Pelican Math Teacher Version Algebra 1 Unit 8 User Reviews and Ratings
- Blue Pelican Math Teacher Version Algebra 1 Unit 8 and Bestseller Lists

5. Accessing Blue Pelican Math Teacher Version Algebra 1 Unit 8 Free and Paid eBooks

- Blue Pelican Math Teacher Version Algebra 1 Unit 8 Public Domain eBooks
- Blue Pelican Math Teacher Version Algebra 1 Unit 8 eBook Subscription Services
- Blue Pelican Math Teacher Version Algebra 1 Unit 8 Budget-Friendly Options

6. Navigating Blue Pelican Math Teacher Version Algebra 1 Unit 8 eBook Formats

- ePub, PDF, MOBI, and More
- Blue Pelican Math Teacher Version Algebra 1 Unit 8 Compatibility with Devices
- Blue Pelican Math Teacher Version Algebra 1 Unit 8 Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Blue Pelican Math Teacher Version Algebra 1 Unit 8
- Highlighting and Note-Taking Blue Pelican Math Teacher Version Algebra 1 Unit 8
- Interactive Elements Blue Pelican Math Teacher Version Algebra 1 Unit 8

8. Staying Engaged with Blue Pelican Math Teacher Version Algebra 1 Unit 8

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Blue Pelican Math Teacher Version Algebra 1 Unit 8

9. Balancing eBooks and Physical Books Blue Pelican Math Teacher Version Algebra 1 Unit 8

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Blue Pelican Math Teacher Version Algebra 1 Unit 8

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Blue Pelican Math Teacher Version Algebra 1 Unit 8

- Setting Reading Goals Blue Pelican Math Teacher Version Algebra 1 Unit 8
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Blue Pelican Math Teacher Version Algebra 1 Unit 8

- Fact-Checking eBook Content of Blue Pelican Math Teacher Version Algebra 1 Unit 8
- 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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