



## Lesson 04 Solving equations having rational &amp; 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  $x$ .

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

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

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

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

**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.

$$\text{Example 1: } x^{10} = 5$$

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

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

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

$$x = \pm \sqrt{2}$$

$$(4x)^2 \cdot -5 = 0$$

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

$$x = \pm \sqrt{5}$$

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.

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

$$x^{\frac{10}{2}} = 52$$

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

$$x = [\pm 22^2]^2$$

$$x = (\pm \sqrt{22})^2$$

$$x = (\pm 4\sqrt{5})^2 = \boxed{64(5)}$$

$$2. (2x-1)^{10} - 3 = 0$$

$$(2x-1)^{\frac{10}{2}} = 3^2$$

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

$$2x-1 = \pm 2$$

$$2x = 2 \pm 1$$

$$x = \frac{3}{2} \text{ or } \frac{1}{2}$$

## Student version

## Solving equations having rational &amp; 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  $x$ .

When raising both sides of an equation to an even power (or if the 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.

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

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

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

$$2. (2x-1)^{10} - 3 = 0$$

## Absent-student version

## Solving equations having rational &amp; 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  $x$ .

$$\bullet [x]^3$$

$$125$$

$$125/2 = \boxed{62.5}$$

Raise an equation to an even power (or if 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.

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

$$\bullet [x]^3$$

$$125$$

$$125/2 = \boxed{62.5}$$

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

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

$$2. (2x-1)^{10} - 3 = 0$$

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**Jiyuan Zhang**

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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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