



Ex. Solve the equations with rational exponents.

a.) $(x+2)^{2/3} = 9$

$(x+2)^{2/3 \cdot 3/2} = 9^{3/2}$

$(x+2)^1 = 27$

$x+2 = 27$

$x = 25$

Radical Equations

A **radical equation** is an equation that contains a variable in a radicand.

$$\sqrt{x} = 9 \quad \sqrt{x-2} = 17 \quad \sqrt{3y+4} = y-2$$

To solve radical equations such as these, both sides of the equation are squared.

$$\begin{array}{lll} \sqrt{x} = 9 & \sqrt{x-2} = 17 & \sqrt{3y+4} = y-2 \\ (\sqrt{x})^2 = 9^2 & (\sqrt{x-2})^2 = 17^2 & (\sqrt{3y+4})^2 = (y-2)^2 \\ x = 81 & x-2 = 289 & 3y+4 = y^2 - 4y + 4 \\ & x = 291 & 0 = y^2 - 7y \\ & & 0 = y(y-7) \quad y=0; y=7 \end{array}$$

Rationalizing Denominators

HOW TO SOLVE RATIONAL EXPONENT?

$$\sqrt{\frac{3pq^2}{2r}} = \frac{\sqrt{3pq^2}}{\sqrt{2r}} = \frac{\sqrt{3} \sqrt{pq^2}}{\sqrt{2r}} = \frac{\sqrt{3} \sqrt{p} \sqrt{q^2}}{\sqrt{2r}} = \frac{\sqrt{3} \sqrt{p} q}{\sqrt{2r}} = \frac{q \sqrt{3p}}{\sqrt{2r}}$$

Rules for Rational Exponents

1. $a^m \cdot a^n = a^{m+n}$ Product rule
2. $\frac{a^m}{a^n} = a^{m-n}$ Quotient rule
3. $(a^m)^n = a^{m \cdot n}$ Power of a power rule
4. $(ab)^n = a^n b^n$ Power of a product rule
5. $\left(\frac{a}{b}\right)^n = \frac{a^n}{b^n}$ Power of a quotient rule

Exponential Equations

$$\begin{array}{l} 2^{-2} \cdot 4^2 \\ 7x^2)^{-4} \\ (5x^2)^{-4} \\ 7^{-2} \times 7^{-3} \\ (6y^4)^{-2} \\ 10^{-10} \cdot 10^4 \end{array}$$

Solve Rational Equations

$$\frac{4}{x^2 - 1} - \frac{x - 1}{x + 1} = \frac{x + 7}{x - 1}$$

Ex. 1.14

How to Solve

Anytime you move A you always do it

$$\begin{array}{l} 2x = 10 \\ \div 2 \\ x = 5 \end{array} \quad \begin{array}{l} \frac{2}{3}x = 6 \\ \div \frac{2}{3} \\ x = 6 \cdot \frac{3}{2} \\ x = \frac{30}{2} = 15 \end{array}$$

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Xiaolong Qi



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Table of Contents Study Guide For Solving Rational Exponents

1. Understanding the eBook Study Guide For Solving Rational Exponents
 - The Rise of Digital Reading Study Guide For Solving Rational Exponents
 - Advantages of eBooks Over Traditional Books
2. Identifying Study Guide For Solving Rational Exponents
 - 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 Study Guide For Solving Rational Exponents
 - User-Friendly Interface
4. Exploring eBook Recommendations from Study Guide For Solving Rational Exponents
 - Personalized Recommendations
 - Study Guide For Solving Rational Exponents User Reviews and Ratings
 - Study Guide For Solving Rational Exponents and Bestseller Lists
5. Accessing Study Guide For Solving Rational Exponents Free and Paid eBooks

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- Study Guide For Solving Rational Exponents eBook Subscription Services
- Study Guide For Solving Rational Exponents Budget-Friendly Options
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 - ePub, PDF, MOBI, and More
 - Study Guide For Solving Rational Exponents Compatibility with Devices
 - Study Guide For Solving Rational Exponents Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Study Guide For Solving Rational Exponents
 - Highlighting and Note-Taking Study Guide For Solving Rational Exponents
 - Interactive Elements Study Guide For Solving Rational Exponents
- 8. Staying Engaged with Study Guide For Solving Rational Exponents
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Study Guide For Solving Rational Exponents
- 9. Balancing eBooks and Physical Books Study Guide For Solving Rational Exponents
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Study Guide For Solving Rational Exponents
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Study Guide For Solving Rational Exponents
 - Setting Reading Goals Study Guide For Solving Rational Exponents
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Study Guide For Solving Rational Exponents
 - Fact-Checking eBook Content of Study Guide For Solving Rational Exponents
 - 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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web eine strahlentherapie ist notwendig um lokalisierbaren sichtbaren oder unsichtbaren krebsbefall abzutöten ziel ist es die patienten von der krebserkrankung zu heilen oder bei unheilbaren krebserkrankungen die symptome zu lindern

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