

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

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

$$\begin{aligned} (4x)^{3/4} &= -3 \\ [(4x)^{3/4}]^4 &= [-3]^4 \\ 4x &= \sqrt[4]{81} \\ x &= \frac{\sqrt[4]{81}}{4} \end{aligned}$$

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

$$\begin{aligned} x^{2/3} &= 46 \\ [x^{2/3}]^3 &= [46]^3 \\ x &= [46^3]^{3/2} \\ x &= (\pm \sqrt{64})^3 \\ x &= (\pm 8)^3 = \boxed{\pm 512} \end{aligned}$$

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

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 .

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

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 .

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

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

$$\begin{aligned} (4x)^{3/4} &= -3 \\ [(4x)^{3/4}]^4 &= [-3]^4 \\ 4x &= \sqrt[4]{81} \\ x &= \frac{\sqrt[4]{81}}{4} \end{aligned}$$

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

Blue Pelican Math Pre Calc Answers

Patrick Vollmar



Blue Pelican Math Pre Calc Answers:

This book delves into Blue Pelican Math Pre Calc Answers. Blue Pelican Math Pre Calc Answers is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Blue Pelican Math Pre Calc Answers, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Blue Pelican Math Pre Calc Answers
 - Chapter 2: Essential Elements of Blue Pelican Math Pre Calc Answers
 - Chapter 3: Blue Pelican Math Pre Calc Answers in Everyday Life
 - Chapter 4: Blue Pelican Math Pre Calc Answers in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, the author will provide an overview of Blue Pelican Math Pre Calc Answers. This chapter will explore what Blue Pelican Math Pre Calc Answers is, why Blue Pelican Math Pre Calc Answers is vital, and how to effectively learn about Blue Pelican Math Pre Calc Answers.
3. In chapter 2, this book will delve into the foundational concepts of Blue Pelican Math Pre Calc Answers. The second chapter will elucidate the essential principles that need to be understood to grasp Blue Pelican Math Pre Calc Answers in its entirety.
4. In chapter 3, the author will examine the practical applications of Blue Pelican Math Pre Calc Answers in daily life. The third chapter will showcase real-world examples of how Blue Pelican Math Pre Calc Answers can be effectively utilized in everyday scenarios.
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6. In chapter 5, this book will draw a conclusion about Blue Pelican Math Pre Calc Answers. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Blue Pelican Math Pre Calc Answers.

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