

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: $(4x)^{2/3} + 5 = 0$

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

$$\begin{aligned} (4x)^{2/3} &= -5 \\ [(4x)^{2/3}]^3 &= [-5]^3 \\ 4x &= \sqrt[3]{-125} \\ x &= \frac{-5}{4} \end{aligned}$$

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

$$\begin{aligned} x^{2/3} &= 46 \\ [x^{2/3}]^3 &= [46]^3 \\ x &= [99376]^3 \\ x &= (\pm \sqrt[3]{99376})^3 \\ x &= (\pm 46)^3 = \boxed{\pm 97336} \end{aligned}$$

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

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 .

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 2: $(4x)^{2/3} + 5 = 0$

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 .

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

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 2: $(4x)^{2/3} + 5 = 0$

$$\begin{aligned} (4x)^{2/3} &= -5 \\ [(4x)^{2/3}]^3 &= [-5]^3 \\ 4x &= \sqrt[3]{-125} \\ x &= \frac{-5}{4} \end{aligned}$$

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 Calculous Answers

Cynthia Y. Young



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Precalculus J. S. Ratti,Marcus McWaters,Leslaw Skrzypek,2018-01-08 Textbook with answers to selected exercises

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Student Solutions Manual for a Graphical Approach to Precalculus John Hornsby,Margaret Lial,Gary K. Rockswold,2014-02-28 This manual provides detailed solutions to odd numbered Section and Chapter Review Exercises as well as to all Relating Concepts Reviewing Basic Concepts and Chapter Test Problems

A Graphical Approach to Precalculus with Limits Student's Solutions Manual John Hornsby,Margaret L. Lial,Randy Krieger,Gary K. Rockswold,Terry A. Krieger,2006-03 This edition has evolved to address the needs of today s student While maintaining its unique table of contents and functions based approach the text now includes additional components to build skill address critical thinking solve applications and apply technology to support traditional algebraic solutions It continues to incorporate an open design helpful features careful explanations of topics and a comprehensive package of supplements and study aids to provide new and relevant opportunities for learning and teaching

AP Precalculus: the Teacher's Compendium David Hornbeck,Chuck Garner,2024-05-13 AP Precalculus The Teacher s Compendium is a collection of lessons and activities for every topic in the AP Precalculus course that will be assessed on the

AP exam Each lesson or activity comes with full solutions a homework assignment with solutions sample multiple choice items and the author s reflection on teaching the lesson or facilitating the activity This compendium also includes a sample unit test for each of the 3 units a detailed assessment writing guide and sample pacing for 4 different school calendars

Student's Solutions Manual for Precalculus Robert Blitzer,2017-04-19 **Precalculus** Judith A. Beecher,Judith A. Penna,Marvin L. Bittinger,2012 Beecher Penna and Bittinger s Precalculus A Right Triangle Approach is known for enabling students to see the math through its focus on visualization and early introduction to functions With the Fourth Edition the authors continue to innovate by incorporating more ongoing review to help students develop their understanding and study effectively Mid chapter Review exercise sets have been added to give students practice in synthesizing the concepts and new Study Summaries provide built in tools to help them prepare for tests The MyMathLab course access kit required has been expanded so that the online content is even more integrated with the text s approach with the addition of Vocabulary Synthesis and Mid chapter Review exercises from the text as well as example based videos created by the authors *The Pre-calculus Problem Solver* Max Fogiel,Research and Education Association,Dennis Chester Smolarski,1992 Provides each kind of problem that might appear on an examination and includes detailed solutions *Precalculus* Jogindar Ratti,Marcus S. McWaters,2012-12-03 This is the eBook of the printed book and may not include any media website access codes or print supplements that may come packaged with the bound book Ratti and McWaters have combined years of lecture notes and firsthand experience with students to bring readers a book series that teaches at the same level and in the style as the best math instructors An extensive array of exercises and learning aids further complements the instruction readers would receive in class and during office hours **Pre-Calculus Questions and Answers (Speedy Study Guides** LLC Publishing,Speedy Publishing LLC,2014-05 In the world of mathematics entry into calculus comes through practice in trigonometry algebra limits and exponential logarithmic functions pre calculus Such practice is necessary to understand calculus the study of measuring infinitesimal change According to 1980s psychologist Howard Gardner learners assimilate information using a variety of senses and abilities musical rhythmic visual spatial verbal linguistic logical mathematical bodily kinesthetic interpersonal intra personal and naturalistic by name For visual learners a flow chart mapping the proper math to apply to a problem would help them solve it *Student Solutions Manual for Precalculus* Kevin Bodden,Michael Sullivan,Randy Gallaher,2008-03-01 Fully worked solutions to odd numbered exercises

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