



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.

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

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

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

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

$$(4x)^{10} = -5$$

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

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.

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

$$x^{10} = 52$$

$$[x^4]^2 \cdot [2^2]^2 = 52$$

$$x = [\pm 2\sqrt{2}]^2$$

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

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

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

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

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

$$2x = 2 + 1$$

$$x = \frac{3}{2}$$

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 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.

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

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 .

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

$$125$$

$$125 = 5$$

$$x = \pm 1$$

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.

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

$$(4x)^{10} = -5$$

$$[(4x)^2]^5 = [-5]^{1/5}$$

So don't suddenly forget their notes from this version. Assignment part is still blank.

Check for extraneous roots when appropriate.

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

Blue Pelican Math Pre Cal Answers

Ken Yablonsky

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Forthcoming Books Rose Arny,1999-08

Paperbound Books in Print ,1968

Cruising World ,1980-07

Cruising World ,1980-07

Scientific and Technical Books and Serials in Print ,1989

Hoard's Dairyman ,1913

New York Times Saturday Review of Books and Art ,1970

Who's who in America Harriet L. Tiger,1995

El-Hi Textbooks & Serials in Print ,2005 ,2005

Pre-Calculus For Dummies Yang Kuang,Elleyne Kase,2012-05-21

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Precalculus, Student

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Pre-Calculus Demystified Rhonda Huettenmueller,2005-02-04 Pre Calculus Demystified leads the reader

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