

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:

$$(x - 2)^{1/3} = 5$$

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 .

$$\begin{aligned} [(x-2)^{1/3}]^3 &= [5]^3 \\ (x-2)^1 &= 125 \\ x-2 &= 125 \\ x &= 125+2 = \boxed{127} \end{aligned}$$

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: $(4x)^{1/3} + 5 = 0$

$$\begin{aligned} [x^{1/2}]^2 &= [8]^2 \\ x &= [64]^{1+0/2} \\ x &= \boxed{64} \end{aligned}$$

$$\begin{aligned} (4x)^{1/3} &= -5 \\ [(4x)^{1/3}]^3 &= [-5]^3 \\ 4x &= -125 \\ x &= \boxed{-31.25} \end{aligned}$$

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. $x^{1/2} - 12 = 34$

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

$$\begin{aligned} x^{1/2} &= 46 \\ [x^{1/2}]^2 &= [46]^2 \\ x &= [2116]^1 \\ x &= (\pm\sqrt{2116})^1 \\ x &= (+45)^1 = \boxed{45} \end{aligned}$$

$$\begin{aligned} (2x-1)^{1/3} &= 2 \\ [(2x-1)^{1/3}]^3 &= [2]^3 \\ 2x-1 &= 8 \\ 2x &= 8+1 \\ x &= \boxed{4.5} \end{aligned}$$

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: $(4x)^{1/3} + 5 = 0$

Students take notes and work the examples here. Blank assignment area.

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

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

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 .

$$\begin{aligned} [(x-2)^{1/3}]^3 &= [5]^3 \\ (x-2)^1 &= 125 \\ x-2 &= 125 \\ x &= 125+2 = \boxed{127} \end{aligned}$$

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: $(4x)^{1/3} + 5 = 0$

$$\begin{aligned} (4x)^{1/3} &= -5 \\ [(4x)^{1/3}]^3 &= [-5]^3 \\ 4x &= -125 \\ x &= \boxed{-31.25} \end{aligned}$$

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

Blue Pelican Math Geometry Unit 17

A Gutmann



Blue Pelican Math Geometry Unit 17:

Whispering the Secrets of Language: An Emotional Quest through **Blue Pelican Math Geometry Unit 17**

In a digitally-driven earth where monitors reign great and quick interaction drowns out the subtleties of language, the profound secrets and emotional nuances concealed within phrases often get unheard. However, situated within the pages of **Blue Pelican Math Geometry Unit 17** a captivating fictional treasure pulsating with organic thoughts, lies an exceptional quest waiting to be undertaken. Written by a skilled wordsmith, that enchanting opus invites visitors on an introspective trip, lightly unraveling the veiled truths and profound impact resonating within the cloth of every word. Within the mental depths with this poignant evaluation, we shall embark upon a genuine exploration of the book's core styles, dissect its captivating writing model, and yield to the powerful resonance it evokes heavy within the recesses of readers' hearts.

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