

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

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

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

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

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

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

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

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 .

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

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

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

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

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AW Rasmussen



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