

Teacher version

Unit 5: 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:

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

Simply raise both sides to the 2/3 power and $x-2$ will be left with no exponent. From that point it is easy to solve for x .

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

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: $x^{2/3} = 8$

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

$$\begin{aligned} [x^{2/3}]^3 &= [8]^3 \\ x &= [8]^{3 \cdot 3/2} \\ x &= [8]^{9/2} \end{aligned}$$

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

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. $x^{2/3} - 12 = 14$

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

$$\begin{aligned} x^{2/3} &= 26 \\ [x^{2/3}]^3 &= [26]^3 \\ x &= [26^3]^{3/2} \\ x &= (\pm \sqrt{169})^3 \\ x &= (\pm 13)^3 = \boxed{\pm 2197} \end{aligned}$$

$$\begin{aligned} (2x-1)^{2/3} &= 2 \\ [(2x-1)^{2/3}]^3 &= 2^3 \\ 2x-1 &= 8 \\ 2x &= 8+1 \\ 2x &= 9 \\ x &= \boxed{4.5} \end{aligned}$$

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

Blind to take notes and work the examples here. Blank assignment area.

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

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

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 2/3 power and $x-2$ will be left with no exponent. From that point it is easy to solve for x .

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

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

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

Absent student takes their notes from this version. Assignment part is still blank.

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

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

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Russell F. Jacobs



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