

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

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

$$\begin{aligned} (4x)^{1/3} &= -3 \\ [(4x)^{1/3}]^3 &= [-3]^3 \\ 4x &= -27 \\ x &= -27/4 \end{aligned}$$

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

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

$$\begin{aligned} x^{1/2} &= 46 \\ [x^{1/2}]^2 &= [46]^2 \\ x &= [2116] \\ x &= (\pm\sqrt{2116}) \\ x &= (+45)^2 = \boxed{2025} \end{aligned}$$

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

# 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  $x$ .

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

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

$$\begin{aligned} (4x)^{1/3} &= -3 \\ [(4x)^{1/3}]^3 &= [-3]^3 \\ 4x &= -27 \\ x &= -27/4 \end{aligned}$$

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

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**Harriet L. Tiger**



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