

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

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

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

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

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

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

# 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

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 can be produced. In this case substitute prospective roots back into the original equation to see if they really work.

Example 2:  $(4x)^{1/3} + 3 = 0$

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

Absent student takes their notes from this version. Assigns a part of it to bring back.

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

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

# Blue Pelican Math Pre Cal Answers

**J Spring**



**Blue Pelican Math Pre Cal Answers:**

## Reviewing **Blue Pelican Math Pre Cal Answers**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Blue Pelican Math Pre Cal Answers**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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