

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

$$\begin{aligned} [(x-2)^{3/2}]^2 &= [5]^2 \\ (x-2)^3 &= 25 \\ x-2 &= \sqrt[3]{25} \\ x &= \sqrt[3]{25} + 2 = \boxed{5.7} \end{aligned}$$

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

$$\begin{aligned} [x^{2/3}]^3 &= [8]^3 \\ x &= [8]^{3 \cdot 3/2} \\ x &= \boxed{512} \end{aligned}$$

$$\begin{aligned} (4x)^{2/3} &= -5 \\ [(4x)^{2/3}]^3 &= [-5]^3 \\ 4x &= -125 \\ x &= \boxed{-31.25} \end{aligned}$$

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

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

$$\begin{aligned} x^{2/3} &= 26 \\ [x^{2/3}]^3 &= [26]^3 \\ x &= [26^3]^{3/2} \\ x &= (\pm \sqrt{16900})^3 \\ x &= (\pm 130)^3 = \boxed{\pm 2197000} \end{aligned}$$

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

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

$$\begin{aligned} [(x-2)^{3/2}]^2 &= [5]^2 \\ (x-2)^3 &= 25 \\ x-2 &= \sqrt[3]{25} \\ x &= \sqrt[3]{25} + 2 = \boxed{5.7} \end{aligned}$$

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

$$\begin{aligned} (4x)^{2/3} &= -5 \\ [(4x)^{2/3}]^3 &= [-5]^3 \\ 4x &= -125 \\ x &= \boxed{-31.25} \end{aligned}$$

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

# Blue Pelican Math Unit 13 Geometry

**N Noddings**



## **Blue Pelican Math Unit 13 Geometry:**

## **Blue Pelican Math Unit 13 Geometry** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the power of words has be evident than ever. They have the ability to inspire, provoke, and ignite change. Such is the essence of the book **Blue Pelican Math Unit 13 Geometry**, a literary masterpiece that delves deep in to the significance of words and their effect on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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web take place within the pump room transfer switch shall be specifically listed for fire pump service one transfer switch

shall be dedicated to each fire pump see nfpa 20 03 chapter 9 6 4 10 8 3 1 and 10 8 2 3 u l f m listed built to nfpa 20 03 standard chapter 10 please note to be located within sight of pump motor fire pump

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web when designing or installing electrical power supplies for fire pumps and their accessories you must apply special rules as listed in nfpa 70 the national electrical code nec and the standard for centrifugal fire pumps cfp nfpa 20

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web sep 25 2020 emon framework fire pump is a part of a fire sprinkler system s water supply and powered by electric diesel or steam the pump intake is either connected to the public underground water supply

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web 1 system consists of pump skid and control box control box on deluxe systems only 2 check that the motor is securely fastened to the skid 3 connect sprinkler piping to customer connection on pump skid 4 connect pump suction connection to water source 5 wire control power to pump skid 6 ensure correct voltage is applied

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web above in all three auto positions the pumps shall be stopped by hand only as it will be common practice to run the diesel and electrical fire pump at least once a week for a couple of minutes and to prevent any damage to the pumps a return pipe to the reservoir sized for approximately 35 of the pump s duty point flow is to be

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