



## Lesson 04 Solving equations having rational &amp; variable exponents

Many times it is desirable to "get rid" of an exponent in the process of solving an equation. For example, consider:

$$(x-2)^{10} = 5$$

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  $x$ .

$$[(x-2)^3]^3 = [5]^3$$

$$(x-2)^9 = 125$$

$$\frac{9}{x-2} = 125$$

$$x-2 = \sqrt[9]{125} = 5$$

**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.

$$\text{Example 1: } x^{10} = 5$$

$$\text{Example 2: } (4x)^{10} + 5 = 0$$

$$[x^4]^2 \cdot 2^2 = 5^2$$

$$x = [1^2]^{1/2} = \pm 1$$

$$(4x)^{10} = -5$$

$$[4x^4]^2 \cdot [-5]^{1/2} = 0$$

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.

$$1. x^{10} - 18 = 54$$

$$x^{\frac{10}{2}} = 52$$

$$[x^5]^2 = [52]^2$$

$$x = [\pm 22^2]^2$$

$$x = (\pm \sqrt{22})^2$$

$$x = (\pm 4\sqrt{5})^2 = 64(5)^2$$

$$2. (2x-1)^{10} - 2 = 0$$

$$(2x-1)^{\frac{10}{2}} = 2$$

$$[2x-1]^5 = 2^2$$

$$2x-1 = 2^2$$

$$2x = 2^2 + 1$$

$$2x = 3$$

## Student version

## Solving equations having rational &amp; 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 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.

$$\text{Example 1: } (4x)^{10} + 5 = 0$$

It is better to take notes and work the examples here. Blank assignment area.

Solve for extraneous roots when appropriate.

$$2. (2x-1)^{10} - 2 = 0$$

## Absent-student version

## Solving equations having rational &amp; 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  $x$ .

$$[x^5]^2 = 5^2$$

$$125$$

$$125 = 25 = 5$$

$$x = \pm 5$$

When raising both sides of an equation to an even power (or if 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.

$$\text{Example 2: } (4x)^{10} + 5 = 0$$

$$(4x)^{10} = -5$$

$$[4x^4]^2 \cdot [-5]^{1/2} = 0$$

It is better to take notes and work the examples here. Blank assignment area.

Solve for extraneous roots when appropriate.

$$2. (2x-1)^{10} - 2 = 0$$

# Blue Pelican Math Pre Cal Answers

**Rose Arny**

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diagram ; Fuse MINI. 20A, M25. Fuel Pump Motor Output / Diesel Lift Pump [Export Only] ; Fuse MINI. 10A, M26. Driver

Door Switch Bank. 2012 Dodge Durango Fuse Box Info | Location | Diagrams 2012 dodge durango hemi 5.7 fuel pump relay

Jan 18, 2022 — The part number is new and I have installed the part. Is it okay to switch back from the fuel pump external

relay to the TIPM internal relay ... Where is the fuel pump relay located on my 2011 Nov 24, 2013 — The TIPM or totally

integrated power distribution module located under the hood provides power directly to the fuel pump. Amedee. How To

Bypass Fuel Pump on a 2013 Dodge Durango (English) Web Development and Design... by Felke-Morris, Terry For courses in

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