Teacher version

Solving equations having rational & variable exponents

Many times it is desirable to "get rid" of an exponent in the process of solving and 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.

$$\left[(x-2)^{1/3}\right]^3 = [5]^3$$
$$(x-2)^1 = 125$$
$$x - 2 = 125$$
$$x = 125 + 2 = \boxed{127}$$

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

$$\left[x^{2/3}\right]^{3/2} = 8^{3/2}$$
$$x = \left[8^{1/3}\right]^{(when\ even)}$$

Example 2: $(4x)^{1/2} + 5 = 0$

$$(4x)^{1/2} = -5$$
$$\left[(4x)^{1/2}\right]^2 = [-5]^2$$

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. $x^{2/3} - 18 = 14$

$$x^{2/3} = 32$$
$$\left[x^{2/3}\right]^{3/2} = [32]^{3/2}$$
$$x = \left[\pm 32^{1/2}\right]^3$$
$$x = \left(\pm\sqrt{32}\right)^3$$
$$x = \left(\pm 4\sqrt{2}\right)^3 = \boxed{\pm (4\sqrt{2})^3}$$

2. $(2x-1)^{3/5} - 2 = 0$

$$(2x-1)^{3/5} = 2$$
$$\left[(2x-1)^{3/5}\right]^{5/3} = 2^{5/3}$$
$$2x - 1 = 8$$
$$2x = 8 + 1$$
$$9$$

Student version

Solving equations having rational & variable exponents

Many times it is desirable to "get rid" of an exponent in the process of solving and 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.

Rule: 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 equation to see if they really work.

Example 2: $(4x)^{1/2} + 5 = 0$

Students take notes and work the examples here. Blank assignment area.

Solve for extraneous roots when appropriate.

2. $(2x-1)^{3/5} - 2 = 0$

Absent-student version

having rational & variable exponents

"get rid" of an exponent in the process of ple, consider:

power and $x - 2$ will be left with no easy to solve for x.

$$= [5]^3$$
$$125$$
$$125$$
$$125 + 2 = \boxed{127}$$

an equation to an even power (or if ower is even), extraneous roots his case substitute prospective roots to see if they really work.

Example 2: $(4x)^{1/2} + 5 = 0$

$$(4x)^{1/2} = -5$$
$$\left[(4x)^{1/2}\right]^2 = [-5]^2$$

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

extraneous roots when appropriate.

2. $(2x-1)^{3/5} - 2 = 0$

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PT Brinkman

Blue Pelican Math Teacher Version Algebra 1 Unit 8:

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