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.

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

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: $x^{2/5} = 8$ Example 2: $(4x)^{1/2} + 5 = 0$

$$\left[x^{\frac{2}{5}}\right]^{\frac{5}{2}} = 8^{\frac{5}{2}}$$
$$x = \left[8^{\frac{5}{2}}\right]$$

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

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. $x^{2/3} - 18 = 14$ 2. $(2x-1)^{1/5} - 2 = 0$

$$x^{\frac{2}{3}} = 32$$
$$\left[x^{\frac{2}{3}}\right]^{\frac{3}{2}} = [32]^{\frac{3}{2}}$$
$$x = \left[\pm 32^{\frac{3}{2}}\right]$$

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

Student version

Solving equations having rational & variable exponents

... to "get rid" of an exponent in the process of ... example, consider:

... the 3 power and $x - 2$ will be left with no ... it is easy to solve for x.

... of an equation to an even power (or if ... power is even), extraneous roots ... In this case substitute prospective roots ... ation to see if they really work.

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

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

... for extraneous roots when appropriate.

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

Absent-student version

... having rational & variable exponents

... rid" of an exponent in the process of ... ble, consider:

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

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

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

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

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

... extraneous roots when appropriate.

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

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1. This book is structured into several chapters, namely:

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    - Chapter 2: Essential Elements of Blue Pelican Math Pre Cal Answers
    - Chapter 3: Blue Pelican Math Pre Cal Answers in Everyday Life
    - Chapter 4: Blue Pelican Math Pre Cal Answers in Specific Contexts
    - Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Blue Pelican Math Pre Cal Answers. This chapter will explore what Blue Pelican Math Pre Cal Answers is, why Blue Pelican Math Pre Cal Answers is vital, and how to effectively learn about Blue Pelican Math Pre Cal Answers.
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5. In chapter 4, the author will scrutinize the relevance of Blue Pelican Math Pre Cal Answers in specific contexts. This chapter will explore how Blue Pelican Math Pre Cal Answers is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Blue Pelican Math Pre Cal Answers. The final chapter will summarize the key points that have been discussed throughout the book.
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