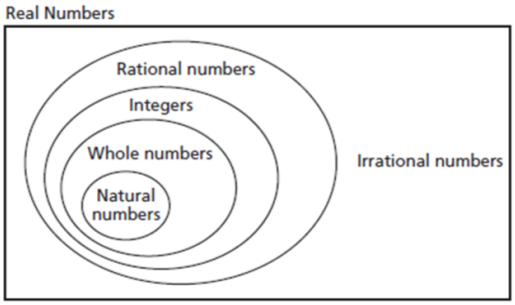
Unit 1 - Roots & Powers Review

finding roots on your calculator... know YOUR calculator buttons!

Powers: [^] OR [x^y] Roots: [$\sqrt{\ }$] VS [$\sqrt[3]{x}$] VS [$\sqrt[n]{x}$]

identify the type of number set...



simplifying radicals... $\sqrt[n]{a \times b} = \sqrt[n]{a} \times \sqrt[n]{b}$

***KNOW your powers! (perfect squares/cubes)

going from a mixed radical to an entire radical

***square/cube the # when going under root sign

Laws of Exponents (know Laws #1 - 6 from the handout...review of Grade 9)

'NEW' laws...

Negative Law: $x^{-n} = \frac{1}{x^n}$ OR $\left(\frac{a}{b}\right)^{-n} = \left(\frac{b}{a}\right)^{n}$

Rational (Fractional) Law: Power → Root →

$$x^{\frac{m}{n}} = \left(\sqrt[n]{x}\right)^m$$

Test: Friday, Sept. 29

- How should YOU prepare?
    * look over previous PRACTICE questions
    * know your facts!
    * PRACTICE (worksheets, warm-ups, homework)
    * CHECK/CORRECT your 1) QUIZ and 2) ASSIGNMENT

Check out the study guide on p. 244-245

- concept summary (big ideas)
- skills summary (steps involved with an example)

Review from text: Pages 246 - 249

Attachments

Image (19).jpg

4.1 Page 206 Questions.pdf

Worksheet - Simplifying Radicals (Square Roots).pdf

Review - Laws of Exponents.pdf

Review - Laws of Exponents (Grade 9).pdf

Review Solutions - Laws of Exponents (Grade 9).pdf

Warm Up - Laws of Exponents.pdf

Assignment - Radicals and Exponent Laws Feb. 2014.pdf