

# Week 10: Algebra 2

## Unit 7 – Rational Expressions

### Objectives

- Students will understand that a rational can be represented as a rational expression
- Students will be able to convert between radicals and rational expressions

**Materials:** Dry-Erase and permanent markers, index tables, calculator, graphing calculator, handouts, paper, pencil, MP 1

Time	Activity
10 min	<b>Exit Ticket</b> Simplify the following rational expressions using their rules above:
30 min	<b>Direct Instruction</b> Rational expressions involving roots or with radical expressions – Show with the next example – using expressions so that they contain the radical with the the coefficient outside – Show in a proof that these rules of roots. <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="border: 1px solid black; padding: 5px;"> <p><b>Steps</b></p> <math display="block">\sqrt[3]{125} = \sqrt[3]{5^3} = 5</math> <math display="block">\sqrt[3]{-27} = \sqrt[3]{-3^3} = -3</math> <math display="block">\sqrt[3]{-125} = \sqrt[3]{-5^3} = -5</math> <math display="block">\sqrt[3]{-125} = \sqrt[3]{-5^3} = -5</math> <math display="block">\sqrt[3]{-125} = \sqrt[3]{-5^3} = -5</math> <math display="block">\sqrt[3]{-125} = \sqrt[3]{-5^3} = -5</math> </div> <div style="border: 1px solid black; padding: 5px;"> <p><b>Answers</b></p> <p>By the definition of a radical root</p> <p>Factor the radical as perfect power expression</p> <p>When multiplying add exponents</p> <p>Anything to the 0<sup>th</sup> power is 1</p> <p>If the powers are equal the expression must be 1</p> <p>Factor out 5, then <math>\sqrt[3]{5} = 5</math></p> </div> </div> <p>Then generalize the expression with any value as the roots. General: Show that <math>\sqrt[n]{a^n} = a</math></p> <p><b>Examples</b></p> <ol style="list-style-type: none"> <li><math>\sqrt[3]{125} = \sqrt[3]{5^3} = 5</math></li> <li><math>\sqrt[3]{-27} = \sqrt[3]{-3^3} = -3</math></li> <li><math>\sqrt[3]{-125} = \sqrt[3]{-5^3} = -5</math></li> <li><math>\sqrt[3]{-125} = \sqrt[3]{-5^3} = -5</math></li> </ol> <p>What other rules simplify fractions?</p> <ol style="list-style-type: none"> <li><math>\sqrt[3]{125} = 5</math></li> <li><math>\sqrt[3]{-27} = -3</math></li> <li><math>\sqrt[3]{-125} = -5</math></li> <li><math>\sqrt[3]{-125} = -5</math></li> <li><math>\sqrt[3]{-125} = -5</math></li> </ol> <p>What other simplifications?</p> <ol style="list-style-type: none"> <li><math>\sqrt[3]{125} = 5</math></li> <li><math>\sqrt[3]{-27} = -3</math></li> <li><math>\sqrt[3]{-125} = -5</math></li> <li><math>\sqrt[3]{-125} = -5</math></li> <li><math>\sqrt[3]{-125} = -5</math></li> </ol>
10 min	<b>Exit Ticket</b> Simplify the following:

# Homework 9 1 Rational Exponents

**Hussin A.Rothana**



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