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| **Name:** | **David Young** | | | **Subject:** | **Algebra II** | | **Week of:** | **January 27, 2014** | |
| **Lesson Plans** | | | | | | | | | |
|  | | **Monday:** | **Tuesday:** | | | **Wednesday:** | **Thursday:** | | **Friday:** |
| **Statement of**  **Objective(s)/**  **Think, Know,**  **Do(start with a verb)** | | **Students will review factoring skills.** | **Students will identify rational expressions and begin to multiply and divide them.** | | | **Students will continue to multiply and divide rational expressions.** | **Students will begin to add and subtract rational expressions** | | **Quiz** |
| **Anticipatory**  **Set/Opening** | | **Create three expressions that can be factored using different techniques on each expression.** | **Write about: What is a rational function and when might it be used?**  [**www.sophia.org/tutorials/rational-functions-in-the-real-world--3**](http://www.sophia.org/tutorials/rational-functions-in-the-real-world--3) | | | **Write about it: How are division and multiplication related? What is division (as it relates to factors of num. and denom.)? or What is a rational expression and what do they do?** | **Using basic fractions, add and/or subtract the values.**  **What allows you to perform the operation?** | | **Quiz** |
| **Learning**  **Activities** | | **Students trade papers and factor the problems. Then compare answers with the partner.**  **Write about: Using complete sentences, explain what a factor is and what we use factoring for.**  **Factor Sheet #1 for practice after finished.** | **Students will identify values for which an expression is undefined.**  **Students will be asked how this impacts the domain of their expression.** | | | **Students will share answers of opening question and discuss the concept of division as it relates to multiplying by the reciprocal and cancelling of common factors.**  **Worksheet #1 or 2** | **Students will begin by finding the LCM of rational expressions with a partner.**  **Worksheets from 8.3/Board Problems**  **Write about: Why is factoring a necessary skill for finding the LCM? List the factoring techniques the you are both familiar with** | | **Quiz** |
| **Assessment of**  **Student**  **Understanding**  **/Closure** | | **Parking Lot Question:**  **Which technique is the easiest for you? Hardest?** | **Teacher observation and questioning. Partner grading of in class work and discussion** | | | **Ticket out of class: What skill is vital to your ability to “simplify” rational expressions and why?** | **Ti- Nspire Quiz** | | **Quiz** |