College Algebra

Date:

Items Needed: Book, Smartboard file "Simplifying a Rational Expression", Note Packet-Section 7-1 & 7-2

Objective: The students will be able to simplify and find the domain of a rational function.

PA Common Core Standard:

Lesson:

- Discuss what a rational expression is.
- Talk about a rational expression being a fraction and since it is a fraction has there is always the possibility of having a domain issue if the bottom of the equation equals zero.
- Find the domain of the next two examples.
- Do example 2, p. 321 in the book.

- Discuss what it means to simplify a rational expression (cross out what is common to both the top and bottom)
- Talk about how the domain of the original may not always be the same as the domain of the final answer, but the final domain has to be a compilation of both domains.
- Do the next 5 examples.

- Do the application problem.

Assignment: Have students do 1-9, p. 320.
Have students do 12, 15, 18, 21, 23, 25, p. 322.
Have students do 27-35 (odd), p. 324

Evaluation: (Could be from any one/several of the following)
Responses from classroom questions
Results of classroom sample problems
Homework responses
Check answer with Calculator
End of the section exam

Enrichment: