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| Tuesday 01/19/2016 | Chapter 6.1 - Operations on Functions  
Page 387  
Homework:  
Page 389  
Prob: 8, 18, 38  
Quiz like 8  
Standards:  
F.BF.1b Combine standard function types using arithmetic operations. For example, build a function that models the temperature of a cooling body by adding a constant function to a decaying exponential, and relate these functions to the model.  
F.IF.9 Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions). For example, given a graph of one quadratic function and an algebraic expression for another, say which has the larger maximum. |
| Thursday 01/21/2016 | Chapter 6.2 - Inverse Functions and Relations  
Page 395  
Homework:  
Page 396  
Prob: 10, 16, 28, 40  
Quiz like 10, 16, 28  
Quiz 6.1  
Standards:  
F.IF.4 For a function that models a relationship between two quantities, interpret key features of graphs and tables in terms of the quantities, and sketch graphs showing key features given a verbal description of the relationship. Key features include: intercepts; intervals where the function is increasing, decreasing, positive, or negative; relative maximums and minimums; symmetries; end behavior; and periodicity.  
F.BF.4a Solve an equation of the form f(x) = c for a simple function f that has an inverse and write an expression for the inverse. For example, f(x) =2x^3 ≠ 3 or f(x) = (x+1)/(x-1) for x ≠ 1. |
| Friday 01/22/2016  | Homework Day  
Homework:  
Quiz 6.2 |
| Monday 01/25/2016   | Chapter 6.3 - Square Root Functions and Inequalities  
Page 404  
Homework:  
Page 403  
Prob: 14, 20, 32, 42  
Quiz like 14, 20, 42  
Standards:  
F.IF.7b Graph square root, cube root, and piecewise-defined functions, including step functions and absolute value functions.  
F.BF.3 Identify the effect on the graph of replacing f(x) by f(x) + k, k f(x), f(kx), and f(x + k) for specific values of k (both positive and negative); find the value of k given the graphs. Experiment with cases and illustrate an explanation of the effects on the graph using technology. Include recognizing even and odd functions from their graphs and algebraic expressions for them. |
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<td>Chapter 6.4 - nth Roots</td>
<td>409</td>
<td>Prob: 12, 14, 38, 48 Quiz like 12, 38, 48 Quiz 6.3</td>
<td>A.SSE.2 Use the structure of an expression to identify ways to rewrite it. For example, see (x^4 - y^4) as ((x^2)^2 - (y^2)^2), thus recognizing it as a difference of squares that can be factored as ((x^2 - y^2)(x^2 + y^2)).</td>
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<td>Thursday 01/28/16</td>
<td>Chapter 6.5 - Operations with Radical Expressions</td>
<td>418</td>
<td>Prob: 18, 20, 38, 46 Quiz like 18, 38 Quiz 6.4</td>
<td>A.SSE.2 Use the structure of an expression to identify ways to rewrite it. For example, see (x^4 - y^4) as ((x^2)^2 - (y^2)^2), thus recognizing it as a difference of squares that can be factored as ((x^2 - y^2)(x^2 + y^2)).</td>
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<td>Monday 02/01/16</td>
<td>Chapter 6.6 - Rational Exponents</td>
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<td>Tuesday 02/02/16</td>
<td>Chapter 6.7 - Solving Radical Equations and Inequalities</td>
<td>431</td>
<td>Prob: 24, 36, 48, 50 Quiz like 24, 50 Quiz 6.6</td>
<td>A.REI.2 Solve simple rational and radical equations in one variable, and give examples showing how extraneous solutions may arise.</td>
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| Thursday 02/04/2016 | **Chapter 6 Review**  
| Homework:  
| Quiz 6.7 |
| Friday 02/05/2016 | **Chapter 6 Test** |