

Semester Final Topics

1) Quadratics

- Solve equations
- Critical points
- Methods to solve quadratic equation ($= 0$)
- Discriminant & what it tells us
- Points of Intersection

2) Functions

- Notation
- Domain/Range
- Rational functions
- Asymptotes
- Composite functions
- Inverse Functions

3) Exponential Functions

- Basic properties of exponents
- Fractional exponents
- Solve exponential equations
- Applications (Pop. \$\$, Decay)

4) Logarithms

- Basic properties
- $\text{Log}_a()$ and $\text{Ln}()$
- Solve Log equations
- Solve exponential equations
- Graphs of log functions
 - key features
- Growth/Decay problems
 - Use Logs to solve for "time"

5) Transformations

- Translations
- Stretches
- Reflections
- Putting it all together

Review for Final Exam:

Work on the problems in the review packet. This is your opportunity to study/review for the unit test.

I will NOT grade this work BUT I will take questions on problems in class if you ask.

Solutions will be posted on my web site so look there for help.