For the first midterm, you should know and understand:

**Chapter 1 Review p.114 – 116**
- Library of Functions – all except Greatest Integer Function
- Things to Know – all concepts through Local Minimum
- Objectives – all from §1.1 – 1.5 except #5 and 7 from §1.3

**Chapter 4 Review p.369 – 370**
- Things to Know:
  - Composite function
  - One-to-one function
  - Horizontal-line test
  - Inverse function $f^{-1}$ of $f$
- Objectives - §4.1 all, §4.2 #1, 2, & 4

For extra practice, work the following problems:
- p.116 – 119 #1-26, 27 & 28 (skip part d.), 29-40, 47-66, 67-70 (parts a-d), 71-75
- p. 371 #1-14, 17-22

**The following topics will be tested without the use of a calculator:**

Function Algebra: $(f+g)(x)$, $(f-g)(x)$, $(f\cdot g)(x)$, $\frac{f}{g}(x)$, and given $f(x)$ find $f^{-1}(x)$

Function Transformations