Here are topics that you should be familiar with/review as necessary. They will prove useful during 152 and 153.

- Definition of a function
- Limits notation; limits involving infinity
- Continuity of functions
  1. Visual
  2. Limits definition
  3. Epsilon-Delta definition
- What is a derivative
  1. function
  2. limit
  3. number
  4. instantaneous rate of change
  5. slope of tangent line
  6. velocity
- Linearity of differentiation (all calculus is linear)
- Review rules of differentiation
- Composition of functions
  1. Domain and range
  2. units
  3. which derivative rule applies?
- Implicit differentiation/Differentials
  A differential is a derivative represented as multiplication.
- Mean Value Theorem
- L'Hôpital’s rule
- How are a function $f$ and its derivative $f'$ related?
- Antiderivatives
  1. Any two antiderivatives differ by a constant
  2. Antidifferentiation is linear
  3. Finding position from velocity and acceleration
    $v_0 = -6cm; s_0 = 9cm; a(t) = 6t + 4$. What is position at time $t$?
    Check initial conditions by plugging in 0.