Topics Covered by Test 2
Test will be Wednesday, Nov. 7th

Note: Anything from Exam 1 is fair game. You should not have forgotten KCL, KVL, Ohm’s Law, passive sign convention, voltage and current division and how to solve circuits using mesh and nodal analysis.

Chapter 4
- Know how to solve for Thevenin and Norton equivalent circuits, both with independent and dependent sources. A question containing a dependent source is likely.
- Know for what condition the maximum power transfer to the load happens.
- Know how to use superposition to solve for a circuit variable both with dependent and independent sources. A question containing a dependent source is likely.
- Know how to properly use source transformation to solve for a circuit variable with both dependent and independent sources. A question containing a dependent source is likely.
- Know what you did in the Thevenin/Norton lab.

Chapter 5
- Know how an op-amp works in open loop.
- Know the assumptions you can make to solve an ideal op-amp problem with negative feedback.
- Know how to derive a relationship between the output and input voltages.
- Know what saturation is and what causes it.
- Be familiar with current considerations.

Special Notes:
- The test will be closed notes and closed book. On this test, no equations will be given.
- Plan as though calculators will not be allowed.
  - The points awarded are based more on concepts than calculations – concentrate on getting the ideas/concepts correct.
  - I am tolerant of simple math mistakes (sign change errors in algebra manipulations) but not so much for major algebra no, no’s. so:
    - Please, please, please, be able to sum fractions by finding a common denominator, how to divide fractions and when terms can be legally canceled.
  - I never make the arithmetic very complicated, if it is, you are probably have made an error somewhere.