**QFT QFocus Statements**

Lab 0: *The U.S. can’t adopt SI units!*

Lab 1: *Ignore the resistor’s power rating, we’ll let it burn!*

Lab 2: *Series resistors share the total voltage across them!*

Lab 3: 1.) *Node voltages can’t be left floating; they must be referenced to ground.*

2.) *Mesh currents circulate like eddy currents!*

Lab 4: *For superposition, each independent source contributes input one at a time to achieve the overall voltage or current.*

Lab 5: *The Thevenin resistance is the load resistance’s password to unlock maximum power*!

Lab 6: *Op amps are useless if you give them the wrong feedback!*

Lab 7: **Take home lab** **[no QFT]**

Lab 8: *For a 1st order circuit, forever is only five time constants away!*

Lab 9: **[No QFT due to length of lab]**

Lab 10: *Just as “all roads lead to Rome,” all systematic circuit analysis techniques lead to the desired voltage or current.*

Lab 11: *At the resonant frequency, the inductive and capacitive reactance of a series RLC circuit cancels.*

Lab 12: **Take-home lab [no QFT]**

Lab 13: *If your motor’s lagging, a shunt capacitor will lead it to unity!*

Lab 14: *Analyzing a balanced 3-phase, Y-Y system is as easy as a-b-c!*