# EE331 Spring 2009

PS3: Assigned W (1/14)

Problems

- 2.31 (the 1Ω, 2Ω, and 4Ω resistors are all in parallel)
  *Ans:* $i_1 = 11.2\text{A}$, $i_2 = 1.6\text{A}$, $i_3 = 9.6\text{A}$, $i_4 = 6.4\text{A}$, $i_5 = 3.2\text{A}$
- 2.34 (overall dissipated power can be solved using the equivalent resistance)
  *Ans:* $R_{eq} = 40\Omega$, $P = 3.6\text{W}$
- 2.36 (maintain your intermediate resistor combination steps to help you get the output voltage using voltage dividers)
  *Ans:* $i = 0.5\text{A}$, $V_o = 1.5\text{V}$
- 2.39
  *Ans:* a) 727.2Ω; b) 3000Ω