

Homework 4
EE 220 Circuits I Fall 2019
Monday, September 30, 2019

- 1) PP4.1 Use regular circuit analysis to find v_o for $i_S = 30$ A. Then, use linearity to determine v_o when $i_S = 45$ A.
- 2) PP4.5 Also, list contributions to I by each independent source.
- 3) 4.17 Also, list contributions to v_x by each independent source.
- 4) 4.22 Reduce circuit down to a $4\ \Omega$ resistor and an independent voltage source plus series resistor.
- 5) 4.44b Also, sketch the Thevenin equivalent circuit.
- 6) 4.47 Also, sketch the Thevenin and Norton equivalent circuits.
- 7) 4.51a Also, sketch the Norton equivalent circuit.
- 8) 4.69 Also, find and sketch the Thevenin ~~and Norton~~ equivalent circuit 'seen' by R .

Due Friday, October 4, 2019.