

Homework 5 Answers

Please be sure to clearly show your work in the solutions that you submit. Your approach is much more important than obtaining the correct numerical answer.

Problem 3.50: (c) Total current is 4 A. (f) Total power is 64 W.

Problem 3.51: $V_{Th} = 4 \text{ V}$, $R_{Th} = 5.2 \Omega$ (be sure to show the *polarity* of the voltage source in your Thevenin equivalent circuit)

Problem 3.52: $V_{Th} = 4.22 \text{ V}$, $R_{Th} = 3.83 \Omega$

Problem 3.53: (b) $R_L = 3 \Omega$

Problem 3.54: 3.6 A current through 6Ω load resistor (be sure to indicate the current *direction* in your answer!)