

ELECTRIC CIRCUITS (E 250)

HOMEWORK FORMAT

Proper formatting of problems (follow, or points will be deducted).
Only WHITE COPY PAPER (no lined, graph, or engineering paper)
A sketch of the circuit including all variables to be used in calculations.
Show work, use variables, plug in values LAST (when possible).
Final answer: 3-4 sig figs (no more than that!), use units given in problem
Proper notation & SI common prefixes (A, mA, V, Ω , k Ω , W, mW, etc.)
BOX YOUR FINAL ANSWER!

Staple in upper left

List of all problems on top of page 1
Hw #1: 1.1, 1.5, 1.11, 2.5, 2.7, 2.11

Name, Class, hw # on 1st page
John Doe
E 250
hw #1

My prob # Book prob # Brief prob descriptor
#1) Problem 1.1 - Determine v_o & i in circuit shown

Variables in equation must be shown on circuit!

Show work

$$-12 + 4i + 2v_o - 4 + 6i = 0$$
$$v_o = -6i$$
$$-16 + 10i - 12i = 0$$

(1) KVL
(2) Ohm's Law (R=6)
(2) \rightarrow (1)

Draw circuit (if applic)

explain equations

$i = -8A$ **$v_o = 48V$** **BOXED final answer with units & proper sig figs**

#2) Problem 1.5 - Determine v_o & i in circuit shown

Big fat line between problems

Don't start problems lower than what is shown here (about half way between 2 hole punches)