LEHIGH UNIVERSITY

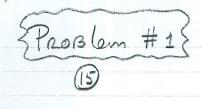
DEPT. OF ELECTRICAL & COMPUTER ENGINEERING

ECE 081 – PRINCIPLES OF ELECTRICAL ENGINEERING

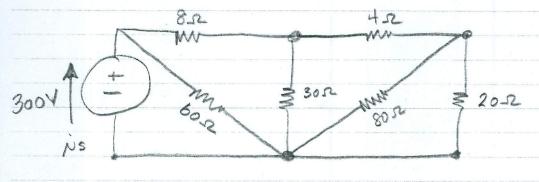
FALL 2010

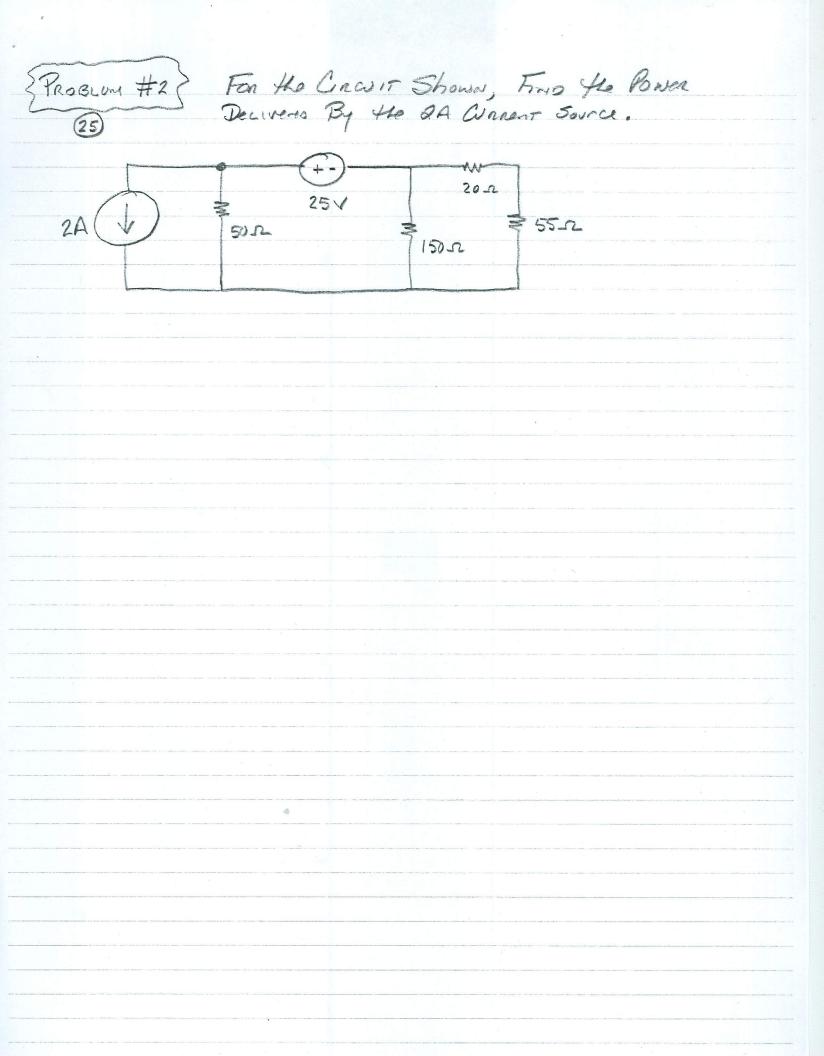
MIDTERM EXAMINATION

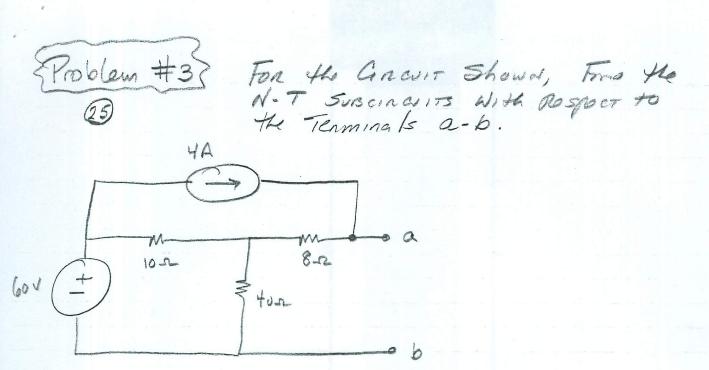
WEDNESDAY 20 OCTOBER 2010



For the CIRCUIT Shown, Find is and the Power Dissipation By the 30-52 Rosiston.







PROBLEM #H FOR

For the CROUT Shown, FIND: V(t) For t > 0 and ic(6) t > 0. NOTE: BE EXTRA CAREFUR OF SIGNS!!

50v = 100 & 5.2 100 &

Note: At t=0 Switch flips From a > b Problem #5 } You HAVE A Collection of Only 1050 and 5050 Resistors. You Need A CINCUIT Whose Reg = 87.5-52

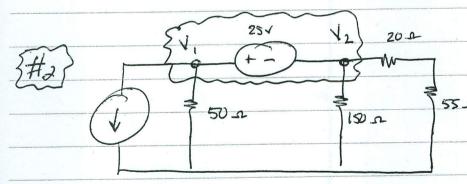
Dosign A CINCUIT That Will Accomplish
This With the Minimum Number of Resistors.

EXAM SOLUTIONS



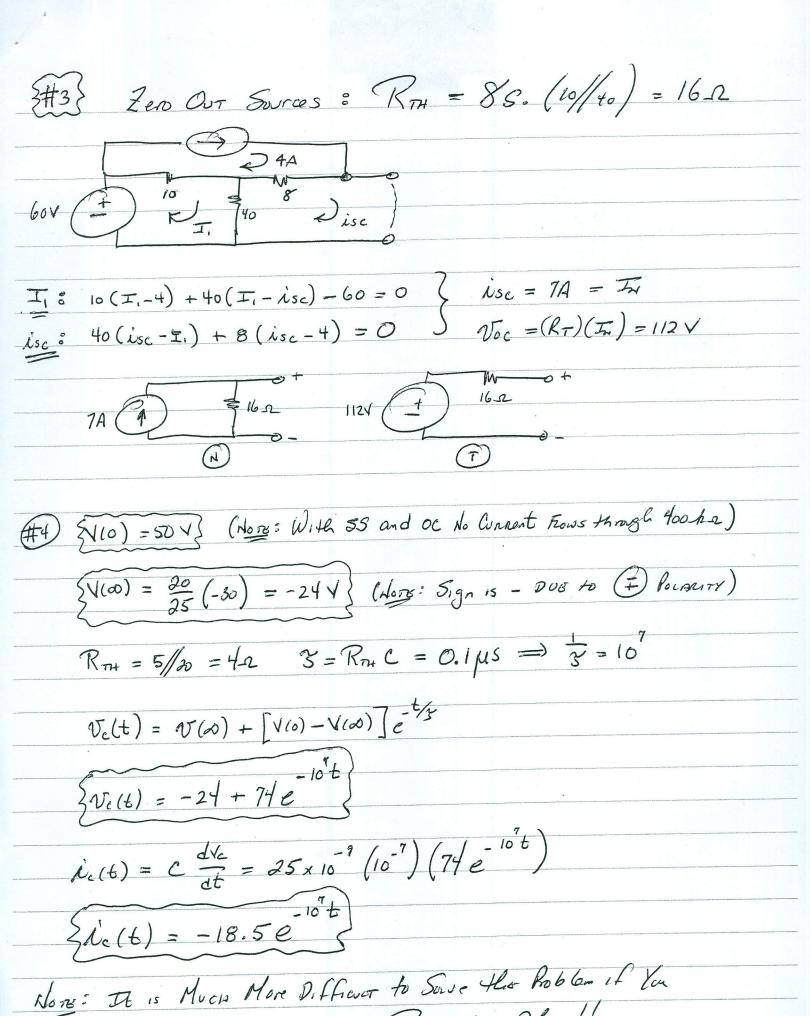
$$\dot{L}_{S} = \frac{300 \,\text{V}}{15 \,\text{n}} = \frac{304}{15 \,\text{n}}$$

$$i_{82} = \frac{60}{8}(20) = 15A$$



Noos : $\frac{V_1}{50} + \frac{V_2}{150} + \frac{V_2}{75} + 2 = 0$

(Deliveres)



Look @ ic(o-), Nc(o+) etc. Kemomker DIns...

