EXAM RULES

1) One 8.5" x 11" sheet permitted;
otherwise closed books, closed notes, open minds!

2) Scientific calculator is permitted; no computers and no phone!

3) **NO PHONES !!!**
Phones should not be visible at all!
A visible phone will result in a zero grade for the exam!

4) Write FULL NAME legibly on each page provided.

5) **PLEASE SHOW ALL WORK !!!**
This is essential to receive partial credit!

6) Please do not submit multiple answers. You must pick an answer!!

7) Write your solutions on the sheets provided.
No other paper/sheets/pages should be used!

8) Clearly label voltages and currents on the circuits provided.

9) Use the variables provided!
No additional variables should be used!

10) Unreadable work will receive NO CREDIT.

11) Please place important equations and answers within boxes as we have done in lecture.

12) Please be careful with your algebra, signs, etc.

13) Please turn in your solutions to me at the end of the period!

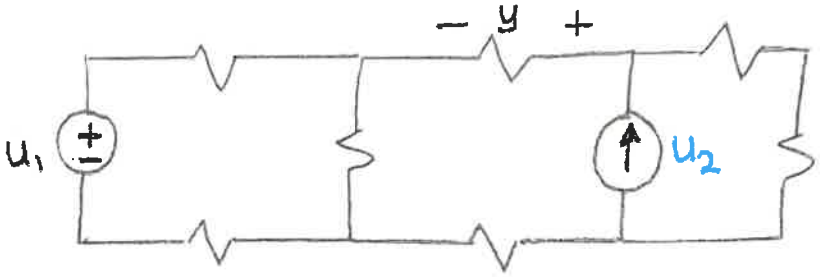
14) **PLEASE DO NOT CHEAT !!!**

From the desk of Dr. A.A. Rodriguez

Problem #1

Relate y to u_1, u_2

(All R = 1)



Problem #2

Relate w_1, w_2, w_3, w_4 to u_1, u_2

(Just set up the equations!)

(Nodal Analysis)

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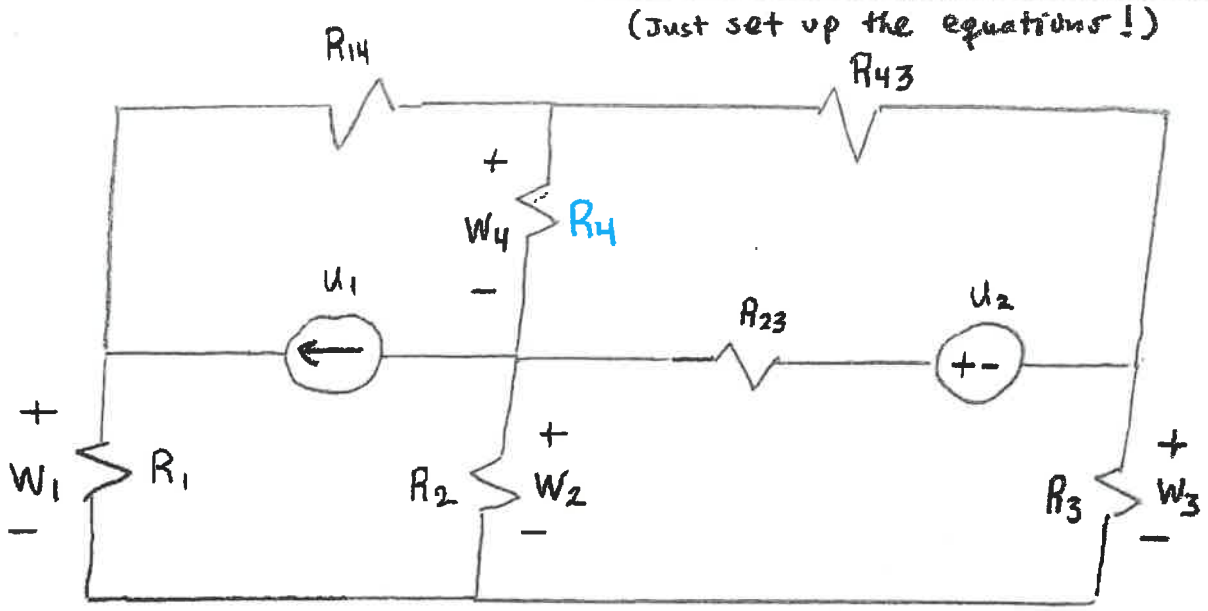

Problem #3

Relate I_1, I_2, I_3, I_4 to u_1, u_2, u_3, u_4

(Just set up the equations !)

(Mesh Analysis)

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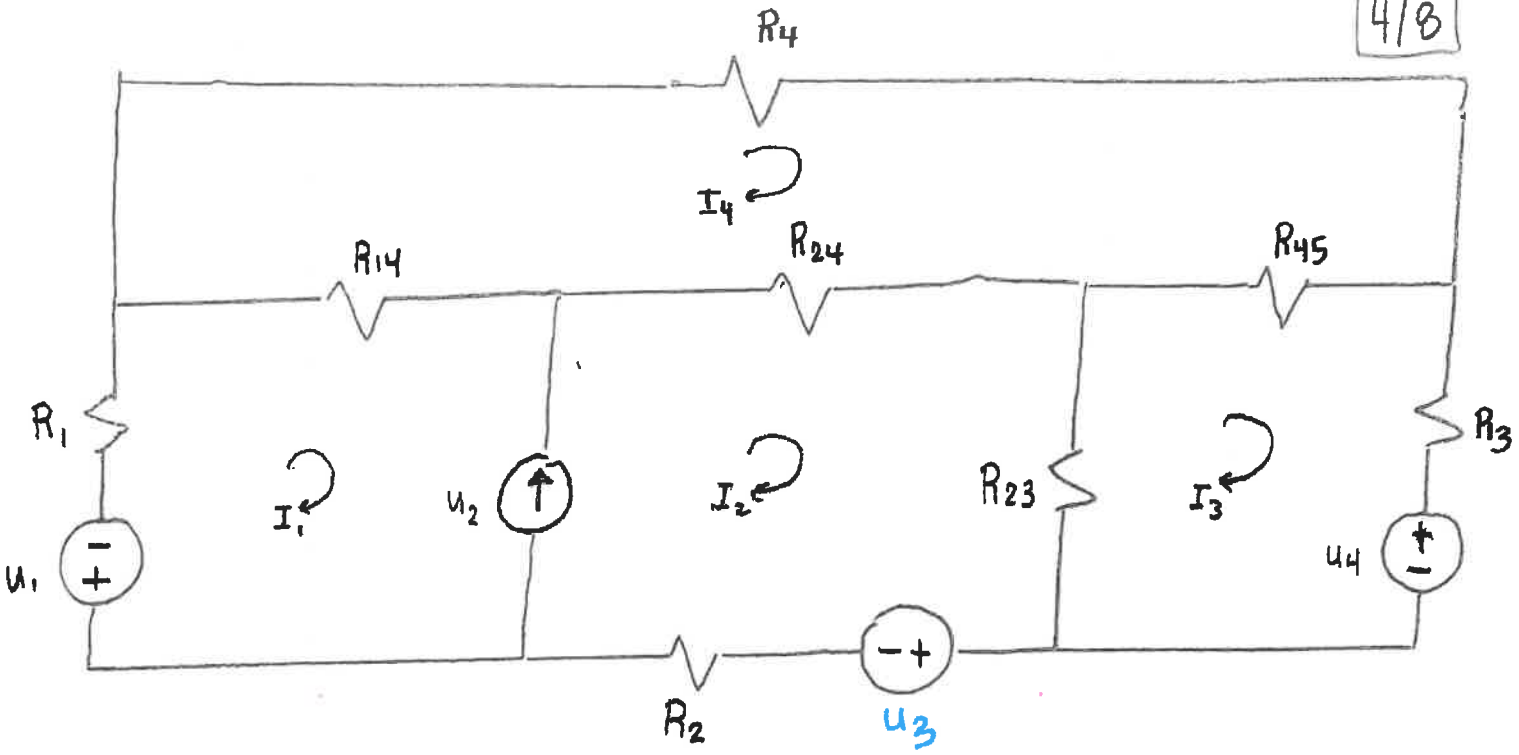
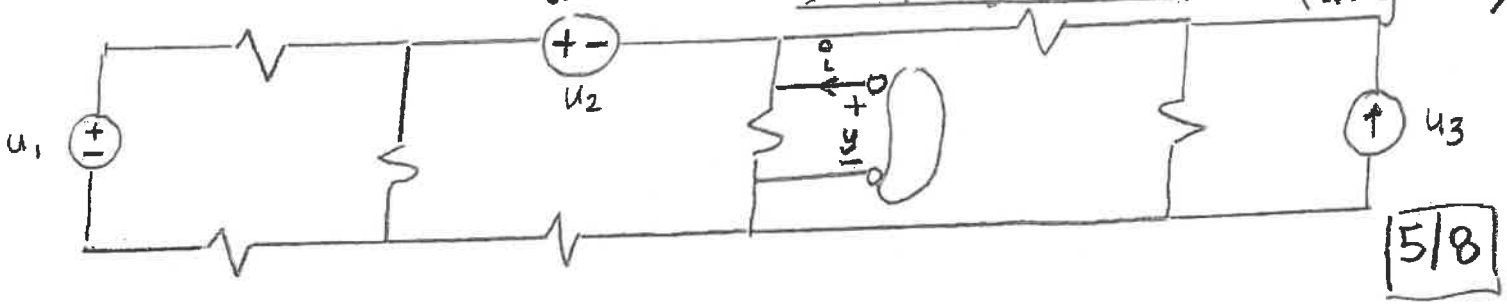


Problem #4

Find a thevenin & Norton Equivalent at y

(All R = 1) ... Must specify R_{th} & V_{th}

(Thevenin · Norton at y)



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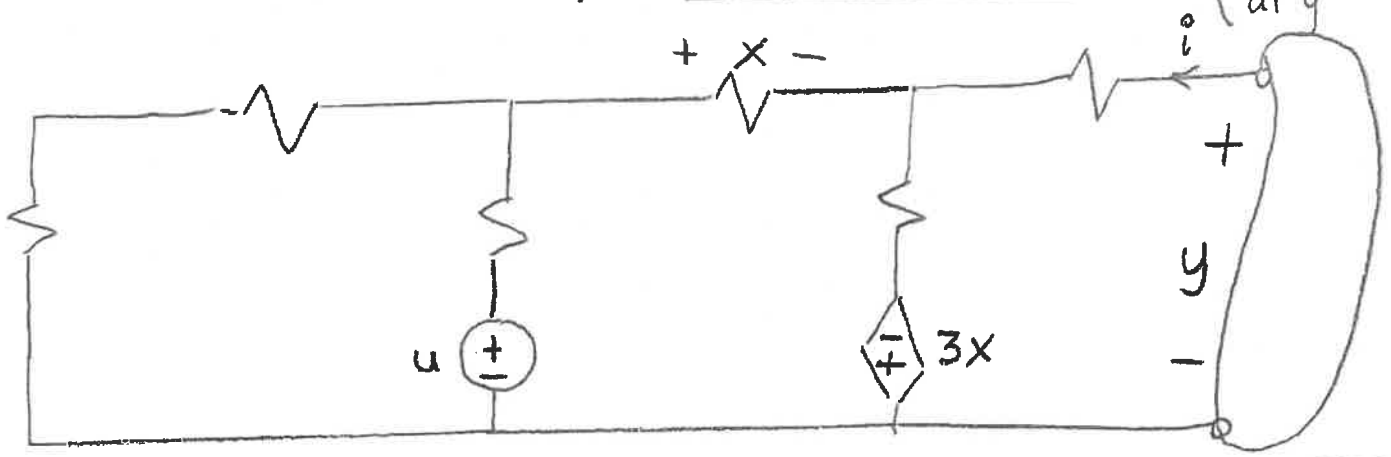
Problem # 5

Find a Thevenin & Norton Equivalent at y

(All R=1) --- Must specify R_{th} & V_{th}

Thevenin-Norton at y



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Problem #6

Find a Thevenin & Norton Equivalent at y

(All R=1) ... must specify R_{th} & V_{th}

(Thevenin-Norton at y)

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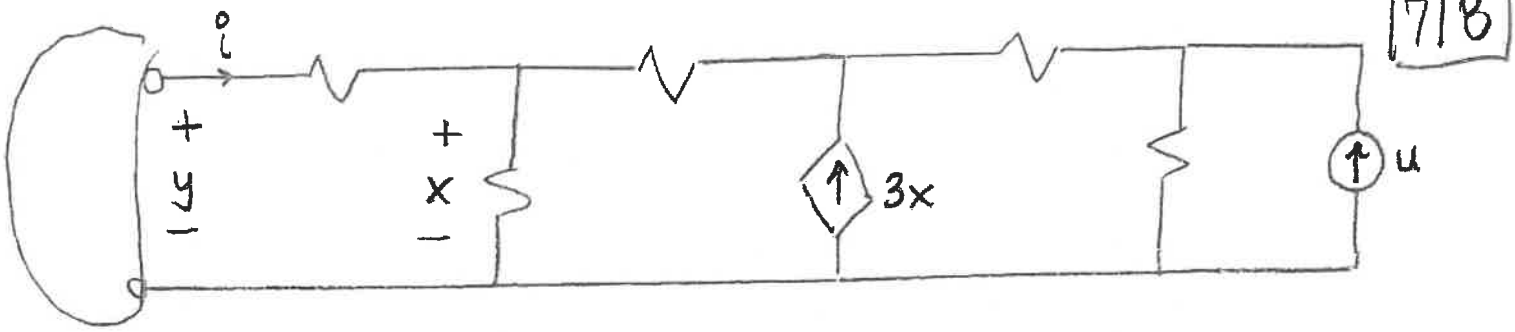

Problem #7

Relate y to u_1, u_2 (All $R = 1$)

(Need Another Variable)

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