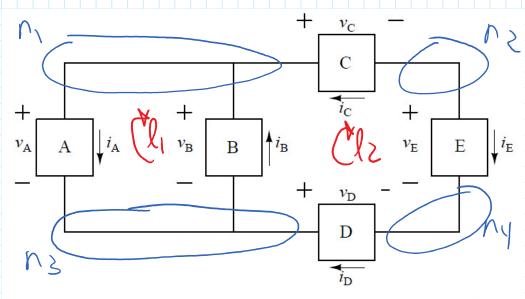
## Problem 1

Monday, October 17, 2022

Name	Variable	Units	Equation
charge	9		N/R
conductance	G	V,5	N/R
work / energy	wE	J	N/R
resistance	R	$\Omega$	v/i
Power	P	W1315	$v \cdot i$
current	ī	A, C15	$\frac{dq}{dt}$
voltage	V	V	$\frac{dw}{dq}$

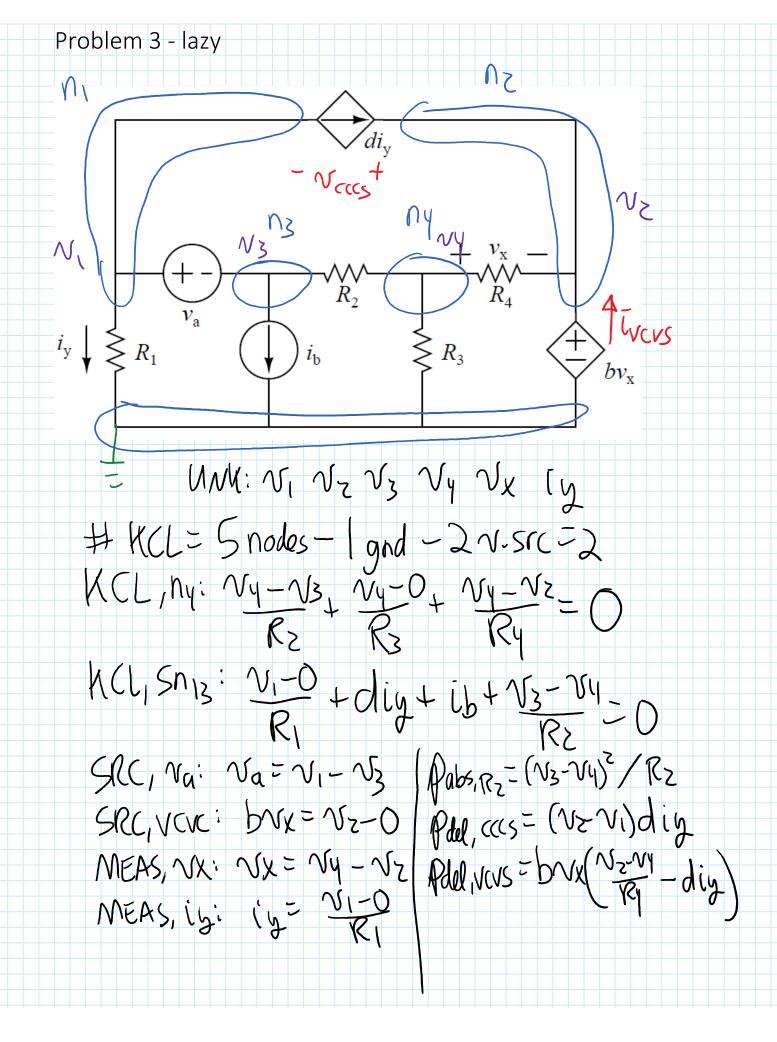


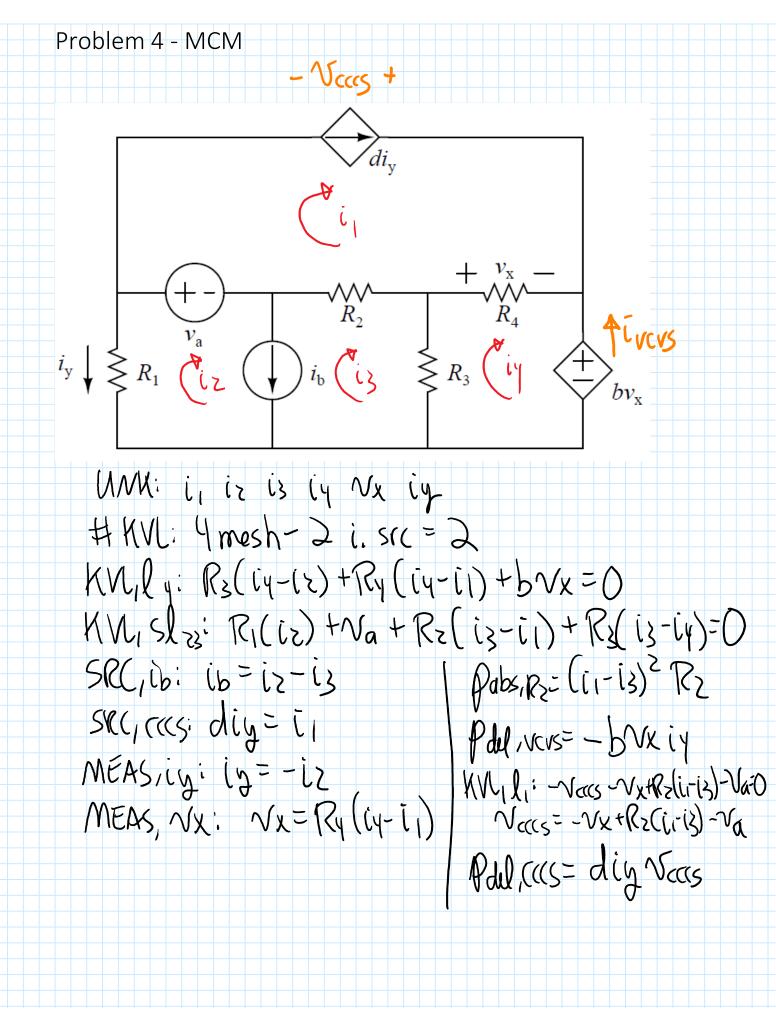


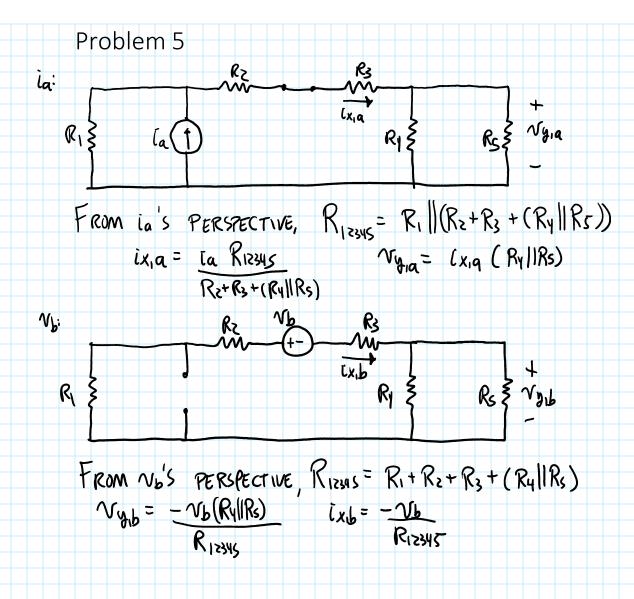
Element	Conv.	Voltage $v$ , V	Current $i$ , A	Power Absorbed $p_{abs}$ , W
A	P	10		10
В	A	10	6	-60
C	A	5	-5	25
D	A	72	5	10
Е	P	3	5	15

1) NB=NA=10 V 2) 1=10=5 A 3) (c=-i==-5A 4) PabsB=-1818=-60 W 5) N = - Palsic/= 5 V

6) Pabs, E= VE [E= 15 W 1) MCL, n 1: LA-1B-1C-0, DA=1B+1C=1A 8) Palos, A= VAIA=10W 9) KVL, Lz: -NB+Nc+NE-NO=D ND=-NB+Nc+NE--2V 10) Pabo = - NOis=10W CHECK: 5 Pabs = 10-60+25+10+15=0 V







## Problem 6

20 WOER & >1 DEP -> FWO Now AND ISC

