

Fill out information below and attach this cover sheet to the FRONT of your HW.
If you do not (or enter incorrect information) you WILL loose 10 points on the HW.

NAME: _____

SID #: _____

Circle One: EE42 / EE100

If EE100, Lab Day: _____, Time: _____

EE 100

Homework # 10

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Issued : Oct. 31

Fall 2008

Due : Nov. 7

1. Problem 4.64, Page 147
2. Problem 4.66, Page 147
3. Problem 4.94, Page 151
4. Problem 7.70, Page 275
5. Problem 7.71, Page 276

6. (a) Write the incidence matrix A_a for the digraph in Fig. P1.14.
(b) Write the reduced incidence matrix A with node ⑤ as the datum node.
(c) Using A , write a system of linearly independent KVL and KCL equations.

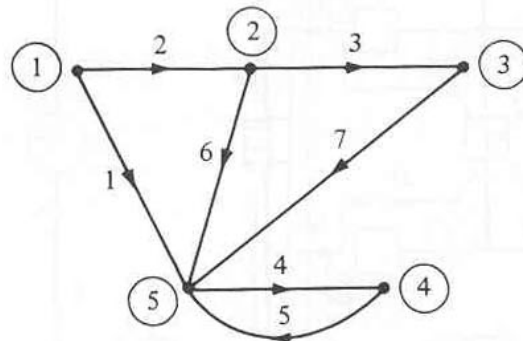


Figure P1.14

7. (a) For the circuit shown below draw the digraph by choosing node ④ as the datum node of the op amp.
 (b) Determine the incidence matrix A_a .
 (c) Choosing node ⑤ as the datum node, write down the KCL and KVL equations based on the incidence matrix A_a from (b).

