

**ELECTRICAL ENGINEERING DEPARTMENT
CALIFORNIA POLYTECHNIC STATE UNIVERSITY**

EE 112 Electric Circuit Analysis I

EXAM 1

Winter 2004

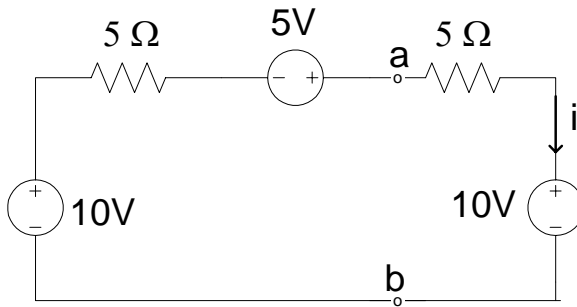
Name: _____ **Last 4 digits of Student ID:** _____

Section #: _____

1 (7)	2 (7)	3 (5)	4 (6)	Total (25)

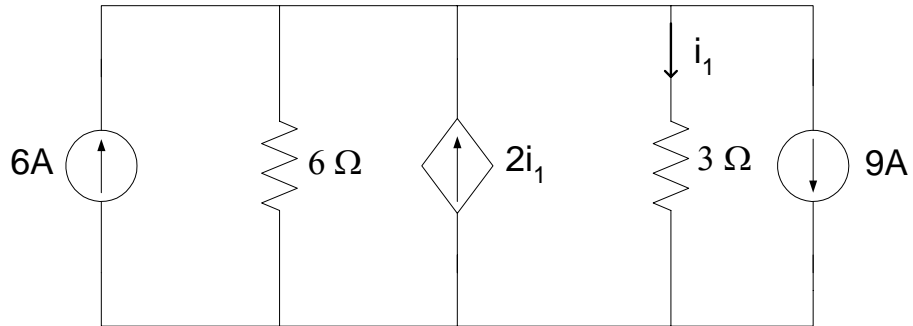
PROBLEM #1

Find the current i and voltage v_{ab} for the following circuit.



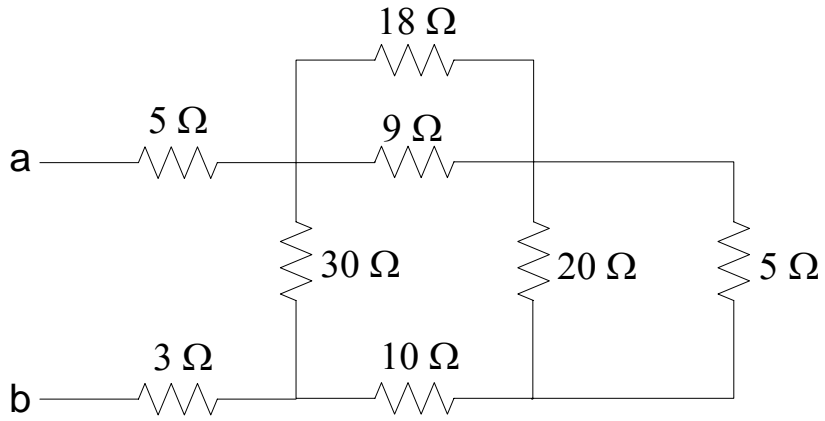
PROBLEM #2

Find i_1 . Calculate the power for the controlled current source (indicate whether the power is absorbed or supplied).



PROBLEM #3

Find the equivalent resistance R_{ab} for the following circuit.



PROBLEM #4

Find v_o for the following circuit.

