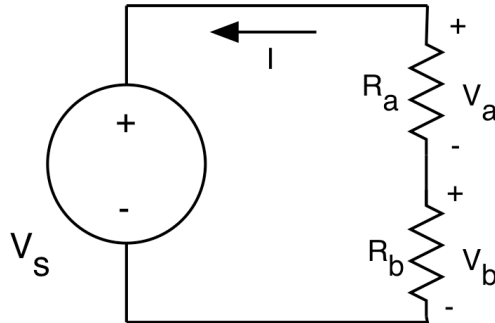


ECE 211 Fall 2003

Homework One

(Due 9/17/03 at the beginning of discussion.)

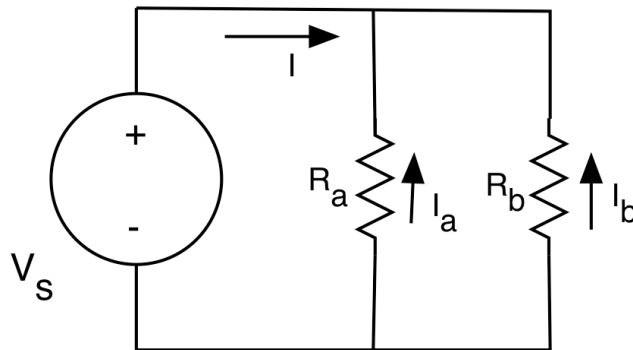
Problem One:



$$V_s = 12\text{V}, R_a = 2\text{k}\Omega, R_b = 1\text{k}\Omega.$$

- What is the current I ?
- What is V_a ?
- What is V_b ?
- What is the power dissipated by each resistor?
- What is the power supplied by the source and how does it relate to d)?

Problem Two:



$$V_s = 5\text{V}, R_a = 10\text{k}\Omega, R_b = 5\text{k}\Omega.$$

- What is the current I ?
- What is I_a ?
- What is I_b ?
- What is the power dissipated by each resistor?
- What is the power supplied by the source and how does it relate to d)?