

ECE 35, Fall 2017

Quiz 1- Section A

Last name

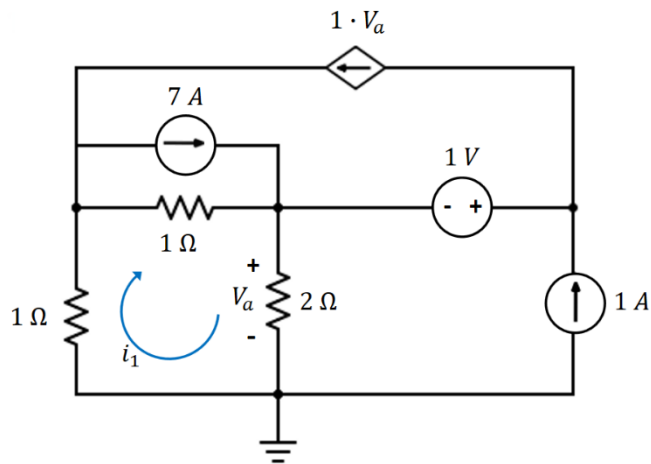
First + middle  
name(s)

PID

**Instructions:**

- Read each problem completely and thoroughly before beginning
- All calculations need to be done on these sheets
- Write your answers in the answer boxes for each question. Make sure you list units!
- Answers without supporting calculations will receive zero credit

**(1)** In the circuit below, find mesh current  $i_1$ . You can use any analysis method you like to solve this problem. Do not forget the units in your final answer.



**(2)** In the following circuit, find the value of  $R_b$  such that the power received by  $R_b$  is maximized. Do not forget the units in your final answer.

