

Name \_\_\_\_\_

EE/EET 2240

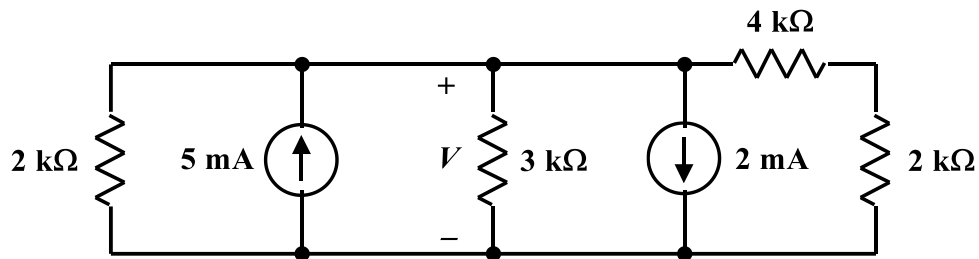
**Exam #1**

Thursday, February 14, 2019

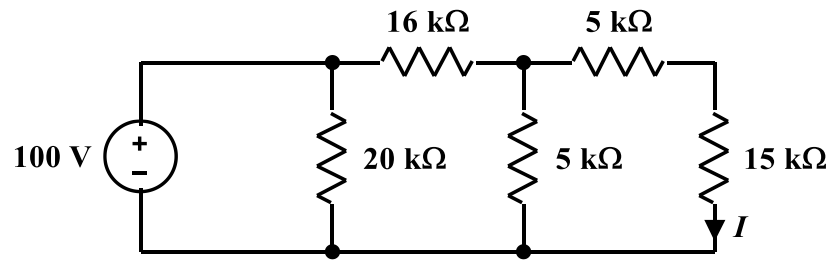
BA 302 (Pocatello) and TAB 115 (Idaho Falls), 9:30AM – 10:45AM

[closed book – one one-sided 8½”×11” page of notes and calculator allowed, nothing else]

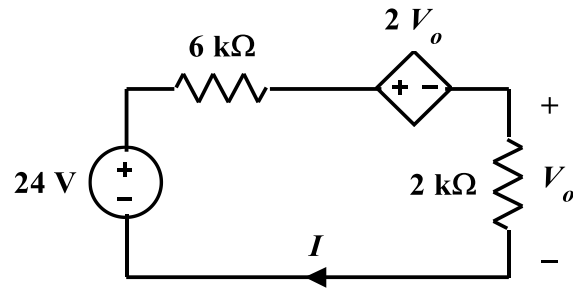
1. Determine the value of the voltage,  $V$ . **SHOW YOUR WORK, and include units and proper signs with your answers.**



2. Determine the value of the current,  $I$ . **SHOW YOUR WORK**, and include units and proper signs with your answers.



3. Determine the value of the current,  $I$ . Then, determine whether the dependent source *delivers* or *absorbs* power, and how much. **SHOW YOUR WORK, and include units and proper sign with your answer.**



4. Use the *nodal analysis method* to formulate a system of simultaneous linear equations representing the circuit shown below. Express the equations in the standard matrix form discussed in class. **SHOW YOUR WORK.**

*Do not attempt to solve the equations.*

