Name _____

By writing or printing my name in the space above, I hereby affirm that I have neither given nor received assistance in preparing solutions for this exam.

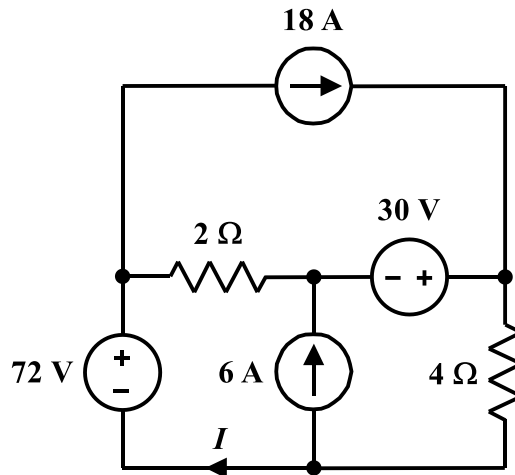EE 2240
Exam #2
Due by 8:00AM, Tuesday, November 9, 2021
[open book, open notes, calculator and computer allowed – no internet access]
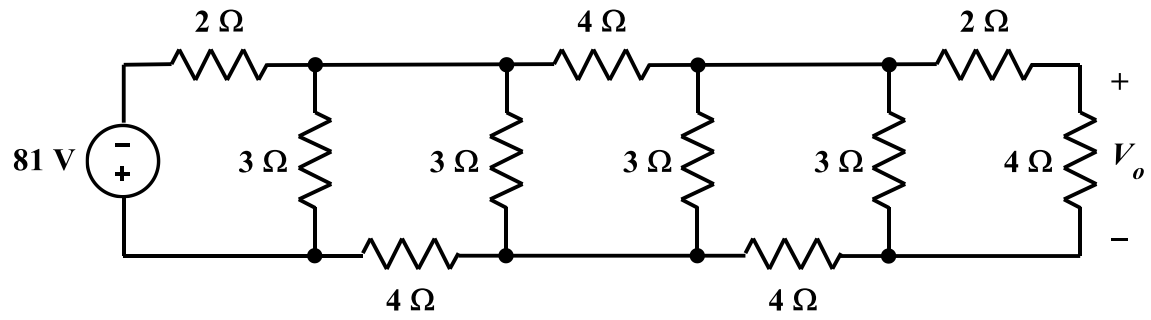*Work must be neat, orderly, and complete in order to receive partial credit.*
LTspice solutions are not allowed.
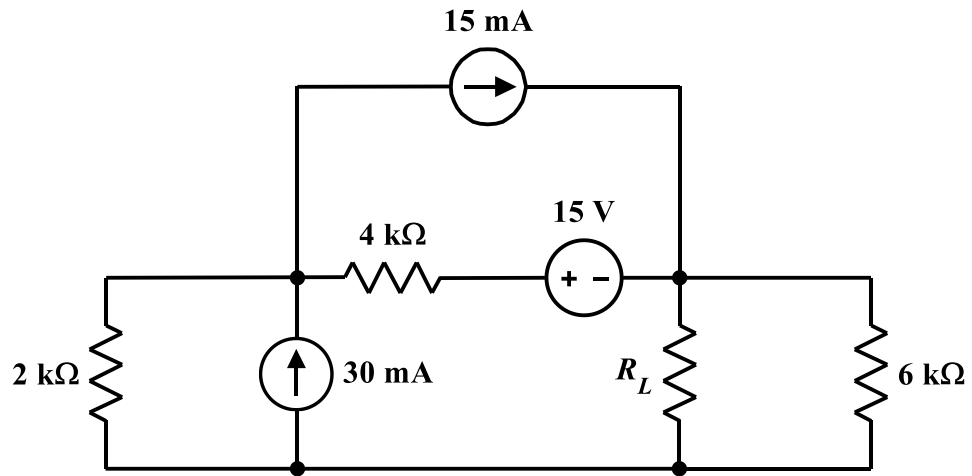*PLEASE* **submit your solutions as a single PDF file.**

1. Determine the numerical value of the current *I*.

2. Determine the numerical value of the voltage V_o.

2 Ω 4 Ω 2 Ω

81 V 3 Ω 3 Ω 3 Ω 3 Ω 4 Ω

4 Ω 4 Ω

V_o

+

−

3. Determine the value of R_L that will absorb maximum power from the remainder of the circuit.

15 mA

15 V

4 kΩ

2 kΩ   **↑ 30 mA**   **+ −** R_L **6 kΩ**

4. Determine the numerical value of the voltage V_z.

40 kΩ

5 kΩ

5 kΩ

9 V

5 V

20 kΩ

V_z