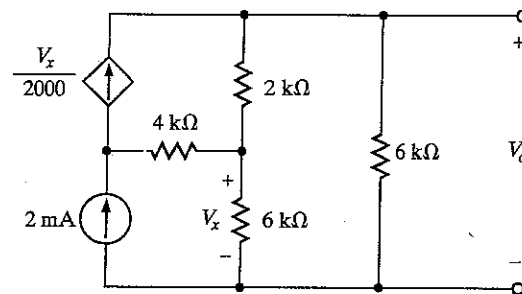


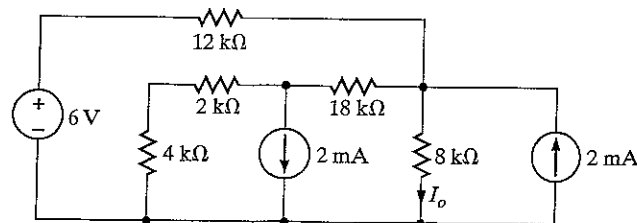
EXAM 1

Each problem is worth 25 points.

1. Find V_0 in the circuit shown below.

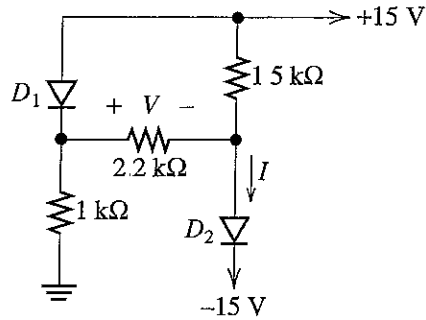


2. Consider the $8\text{ k}\Omega$ resistor in the circuit below to be the load resistor.
- Find the Thevenin equivalent of the remainder of the circuit (after removing the $8\text{ k}\Omega$ resistor). You may use any combination of methods you like to find the Thevenin equivalent.
 - Find the current I_0 and the power dissipated by the resistor.



EXAM 1

3. Find I and V in the circuit shown below.



4. Find i_0 in the circuit shown below. The load can be considered to be a resistor connected to ground, and in this circuit, it does not matter what value that resistor has.

