

## Preparation for Circuits

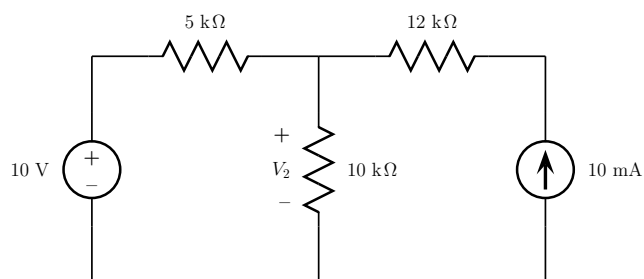
### Concept Questions: Loop Current Method

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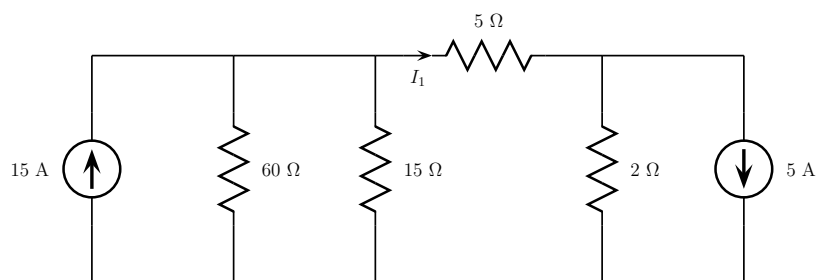
With the loop-current method, the following 4 steps should be followed:

- (1) Label loop currents
- (2) Define voltages across each resistive branch
- (3) Write KVL in each loop (unless there is a current source in that loop)
- (4) Express voltages according to Ohm's Law,  $V = IR$

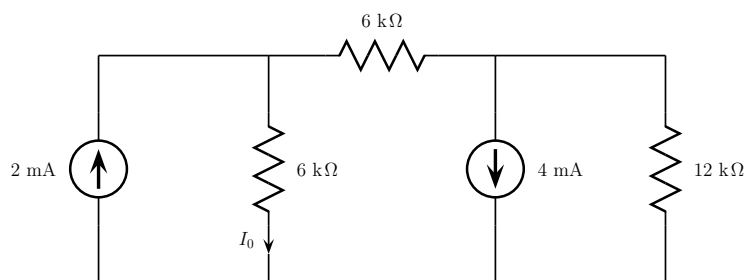
1. Find  $V_2$ .



2. Find  $I_1$ .



3. Find  $I_0$ .



4. Find  $I_a$ .

