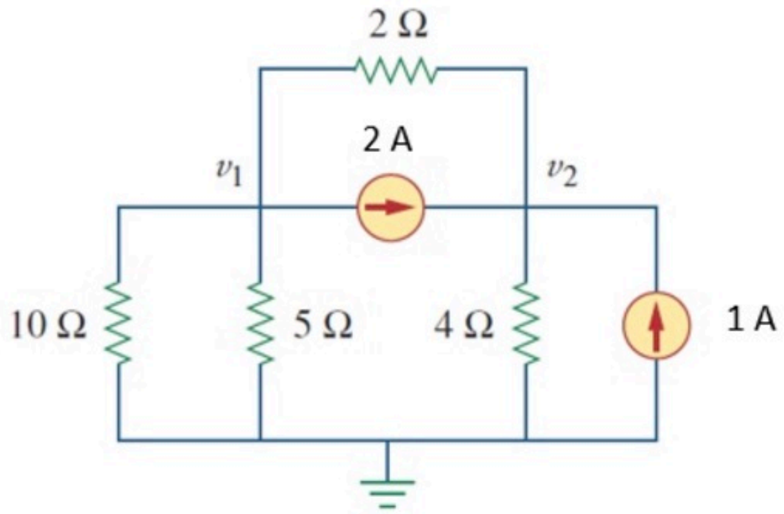
PP - Nodal Mesh 001

Problem has been graded.

Find v_1 and v_2. Solve using nodal analysis.

For extra practice: Afterwards solve again using mesh analysis.



Given Variables:

. : . .

Calculate the following:

v1 (V) :

0 ✓

v2 (V) :

4 ✓

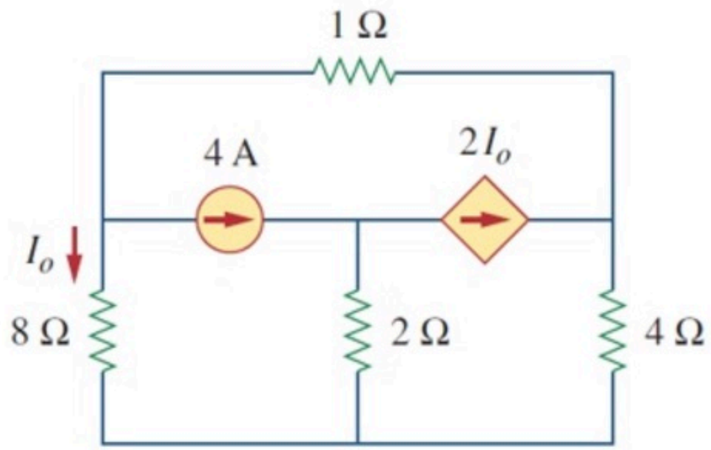
> Hint: No supernodes

PP - Nodal Mesh 002

Problem has been graded.

Find I_o. Solve using nodal analysis.

For extra practice: Afterwards solve again using mesh analysis.



Given Variables:

. : . .

Calculate the following:

Io (A) :

-4 ✓

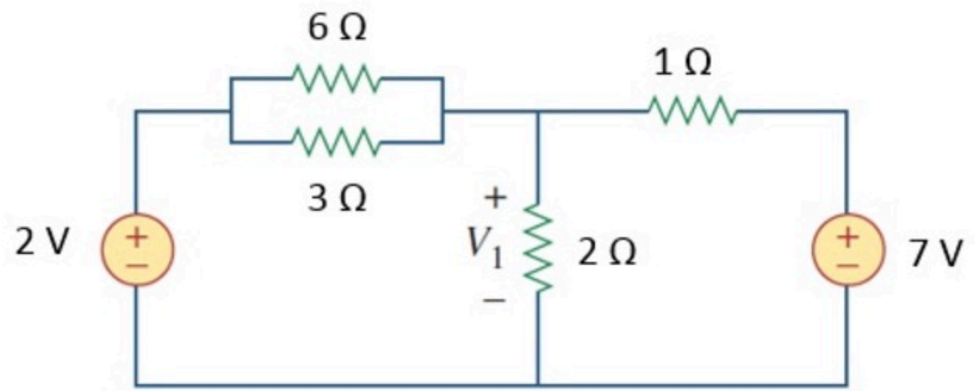
Hint: Write Io as a function of the node voltages

PP - Nodal Mesh 003

Problem has been graded.

Find V_1. Solve using nodal analysis.

For extra practice: Afterwards solve again using mesh analysis.



Given Variables:

. : . .

Calculate the following:

V1 (V) :

4 ✓

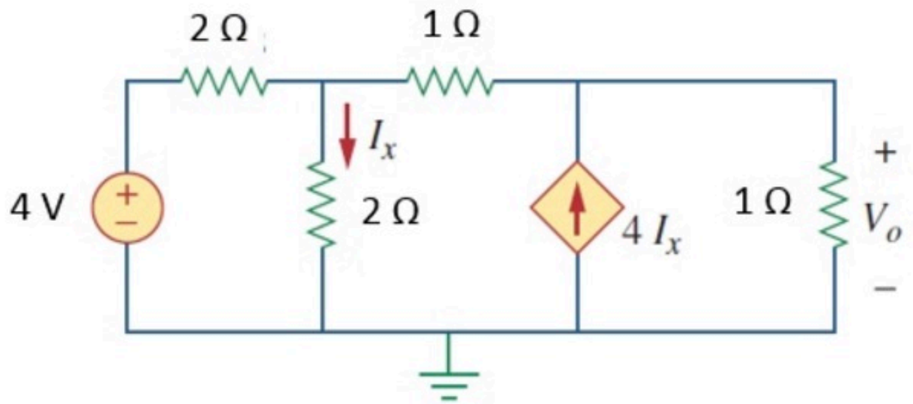
Hint: Choose GND strategically

PP - Nodal Mesh 004

Problem has been graded.

Find V_o. Solve using nodal analysis.

For extra practice: Afterwards solve again using mesh analysis.



Given Variables:

. : . .

Calculate the following:

Vo (V) :

6 ✓

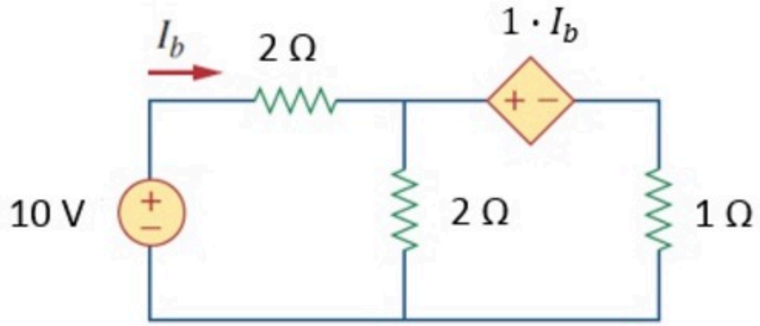
Hint: Express Ix as a function of node voltages

PP - Nodal Mesh 005

Problem has been graded.

Find I_b. Solve using nodal analysis.

For extra practice: Afterwards solve again using mesh analysis.



Given Variables:

. : . .

Calculate the following:

Ib (A) :

3 ✓

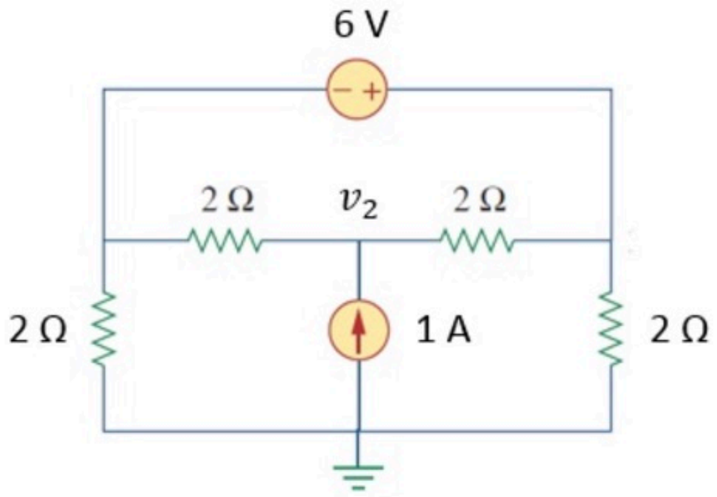
Hint: Need to use a supernode

PP - Nodal Mesh 006

Problem has been graded.

Find v_2. Solve using nodal analysis.

For extra practice: Afterwards solve again using mesh analysis.



Given Variables:

. : . .

Calculate the following:

v2 (V) :

2

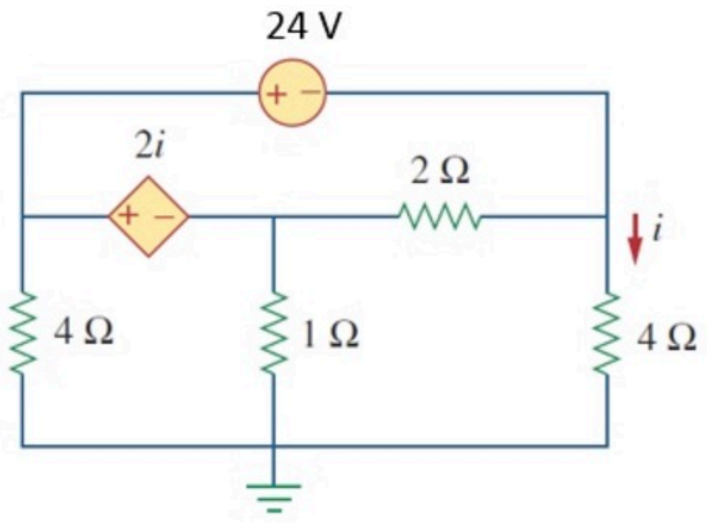
Hint: Use supernode or move GND

PP - Nodal Mesh 007

Problem has been graded.

Find i. Solve using nodal analysis.

For extra practice: Afterwards solve again using mesh analysis.



Given Variables:

. : . .

Calculate the following:

i (A) :

-7.5 ✓

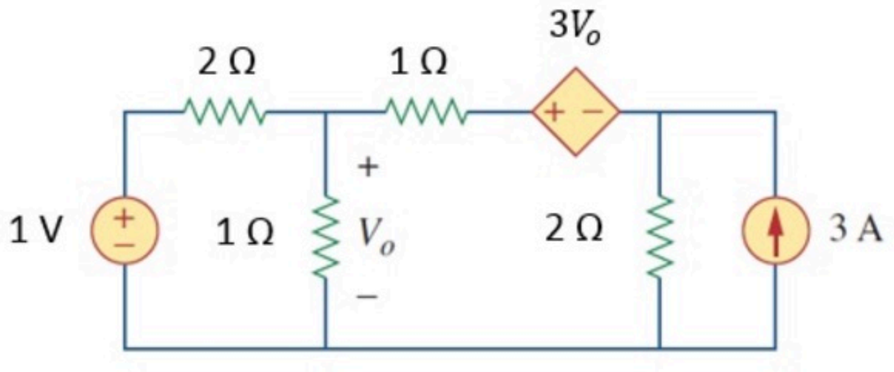
Hint: Use supernode or move GND

PP - Nodal Mesh 008

Problem has been graded.

Find V_o. Solve using nodal analysis.

For extra practice: Afterwards solve again using mesh analysis.



Given Variables:

. : . .

Calculate the following:

Vo (V) :

3 ✓

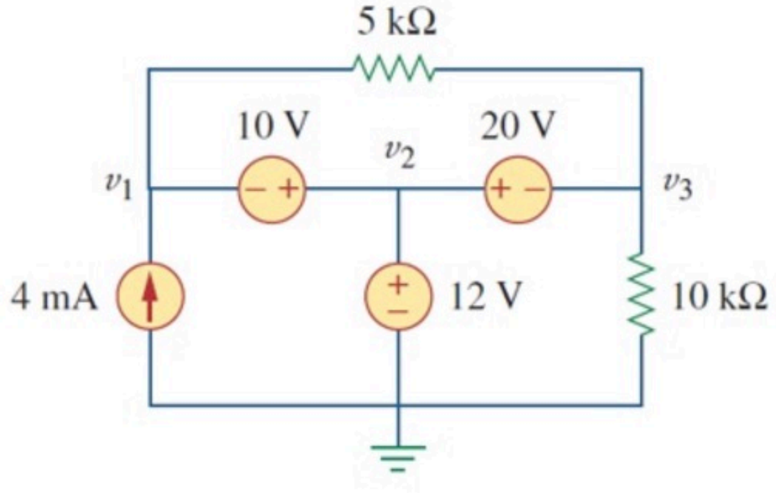
Hint: Use supernode

PP - Nodal Mesh 009

Problem has been graded.

Find v_1, v_2 and v_3. Solve using nodal analysis.

For extra practice: Afterwards solve again using mesh analysis.



Given Variables:

. : . .

Calculate the following:

v1 (V) :

2 ✓

v2 (V) :

12 ✓

v3 (V) :

-8 ✓

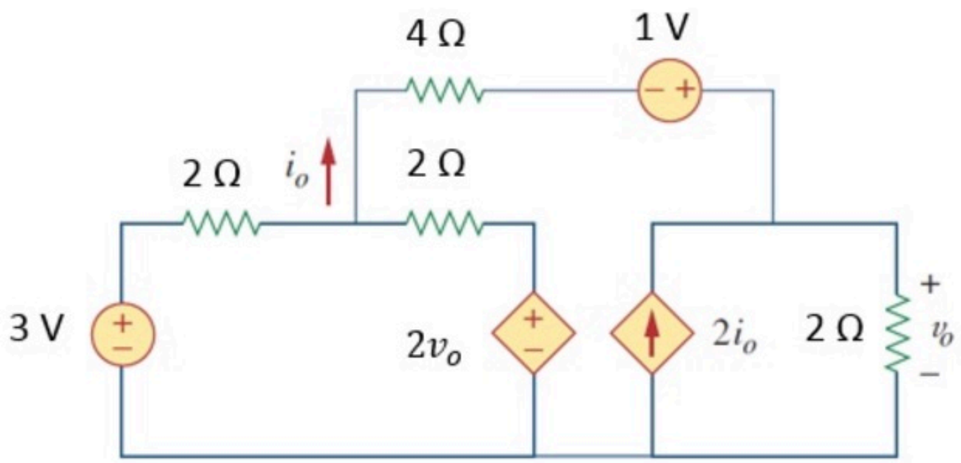
Hint: Check the V-sources

PP - Nodal Mesh 010

Problem has been graded.

Find v_o and i_o. Solve using nodal analysis.

For extra practice: Afterwards solve again using mesh analysis.



Given Variables:

. : . .

Calculate the following:

vo (V) :

3 ✓

io (A) :

0.5 ✓

Hint: Select GND strategically and use supernode