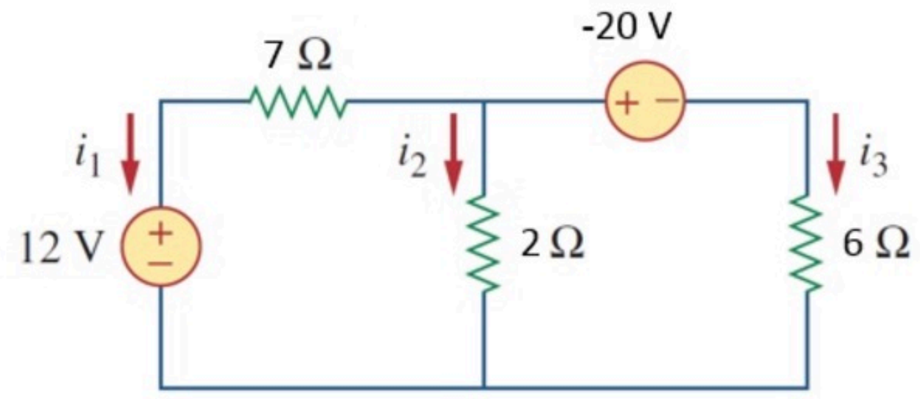
PP Nodal Mesh 011

Problem has been graded.

Find the currents i_1, i_2,and i_3. Solve using mesh analysis.

For extra practice: Afterwards solve again using nodal analysis.



Given Variables:

. : . .

Calculate the following:

i1 (A) :

-2 ✓

i2 (A) :

-1 ✓

i3 (A) :

3 ✓

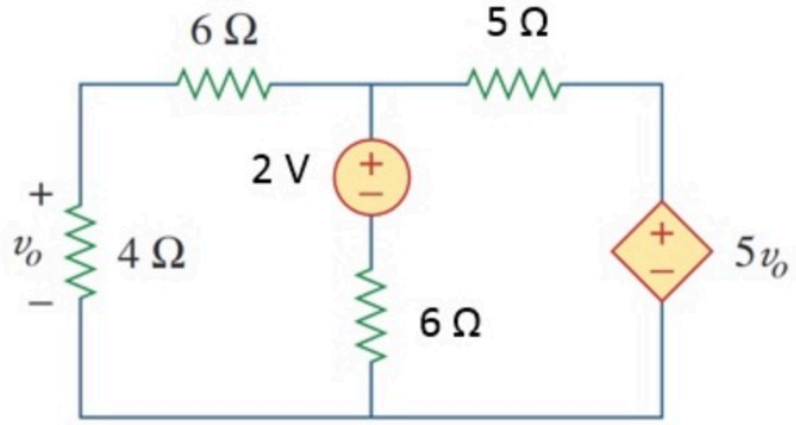
Hint: Define 2 mesh currents

PP Nodal Mesh 012

Unlimited Attempts.

Find the value of v_o. Solve using mesh analysis.

For extra practice: Afterwards solve again using nodal analysis.



Given Variables:

. : . .

Calculate the following:

vo (V) :

2

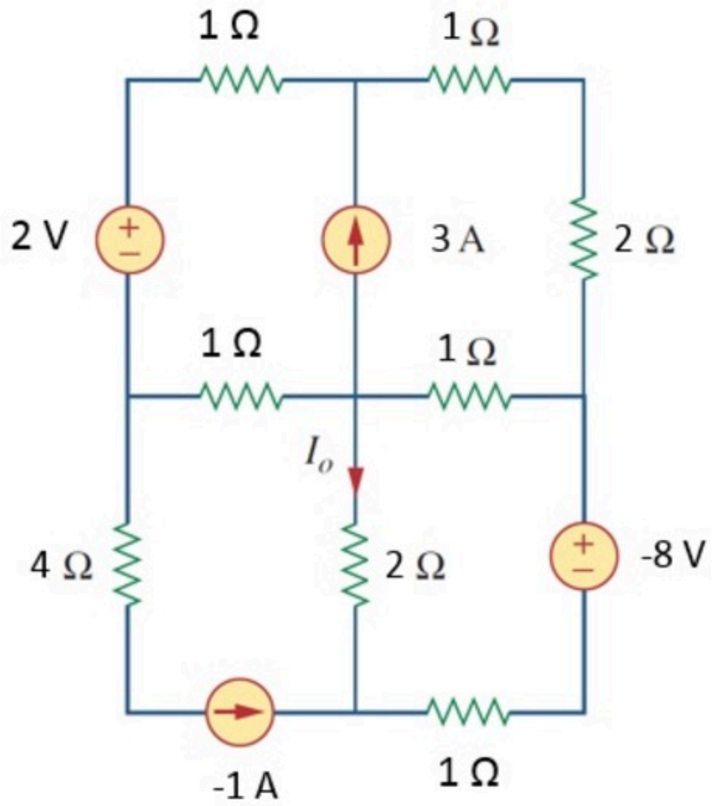
Hint: Ignore vo at the start. Just find the two mesh currents.

PP Nodal Mesh 013

Unlimited Attempts.

Find the current I_o. Solve using mesh analysis.

For extra practice: Afterwards solve again using nodal analysis.



Given Variables:

. : . .

Calculate the following:

Io (A) :

-2 ✓

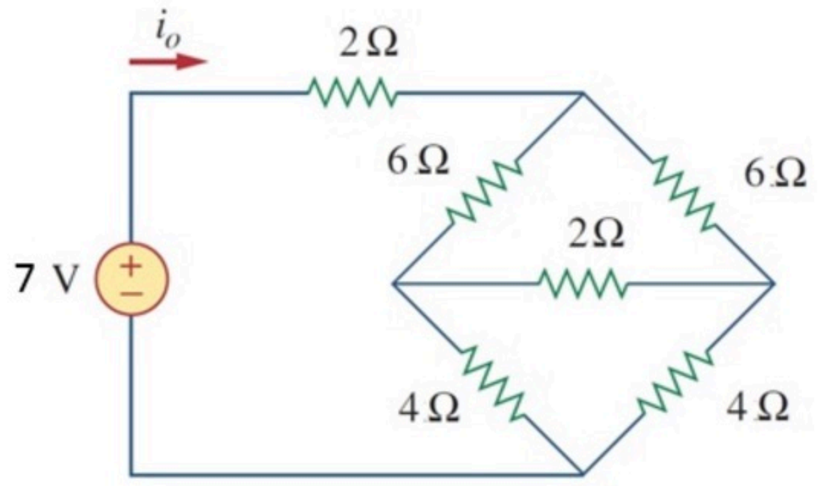
Hint: Use a supermesh

PP Nodal Mesh 014

Unlimited Attempts.

Find the current i_o. Solve using mesh analysis.

For extra practice: Afterwards solve again using nodal analysis.



Given Variables:

. : . .

Calculate the following:

io (A) :

1 ✓

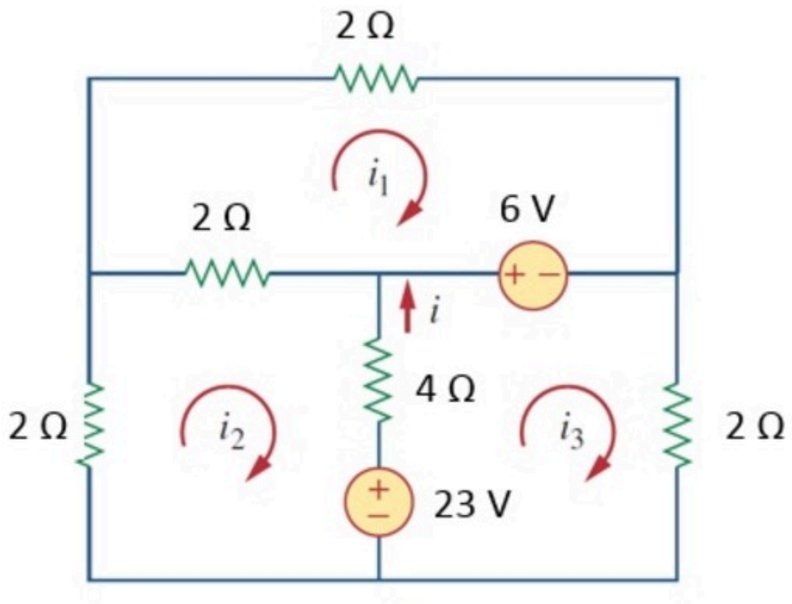
Hint: Symmetry will result in easier equations

PP Nodal Mesh 015

Unlimited Attempts.

Find the current i. Solve using mesh analysis.

For extra practice: Afterwards solve again using nodal analysis.



Given Variables:

. : . .

Calculate the following:

i (A) :

3.5

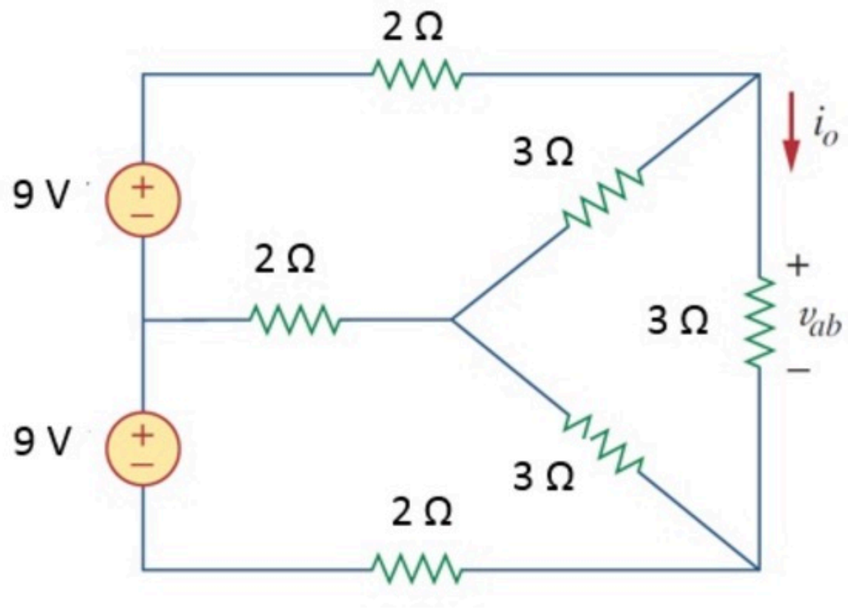
Hint: Mind the direction of the sources

PP Nodal Mesh 016

Unlimited Attempts.

Find the current i_o and the voltage v_{ab}. Solve using mesh analysis.

For extra practice: Afterwards solve again using nodal analysis.



Given Variables:

. : . .

Calculate the following:

io (A) :

2 ✓

vab (V) :

6 ✓

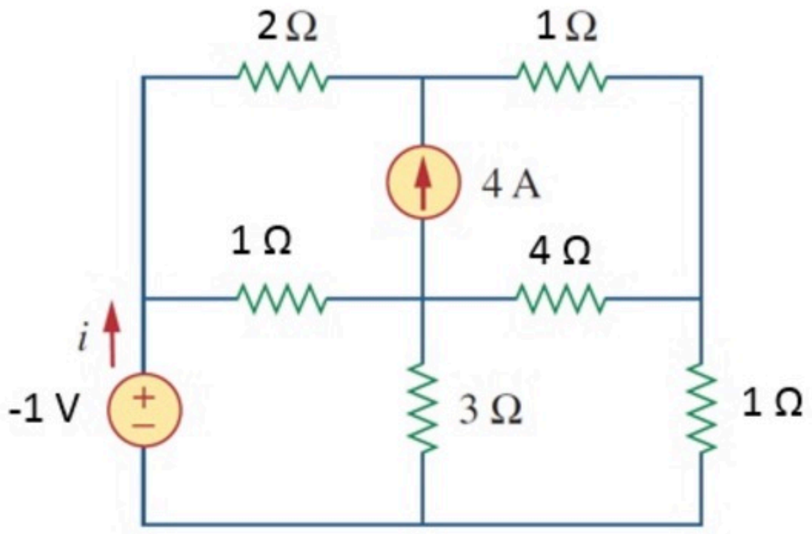
Hint: Afterward, check the symmetry

PP Nodal Mesh 017

Unlimited Attempts.

Find the current i. Solve using mesh analysis.

For extra practice: Afterwards solve again using nodal analysis.



Given Variables:

. : . .

Calculate the following:

i (A) :

0 ✓

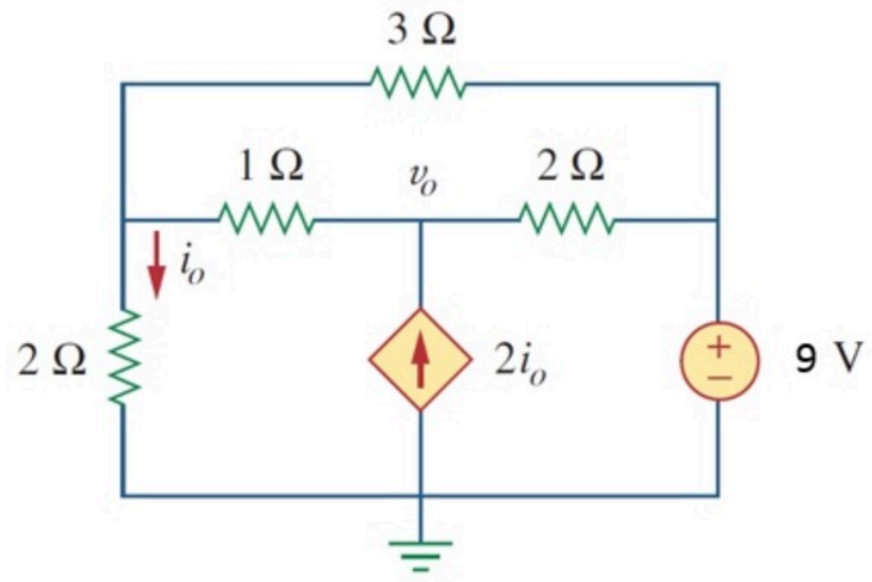
Hint: Use a supermesh

PP Nodal Mesh 018

Unlimited Attempts.

Find the current i_o and the voltage v_o. Solve using mesh analysis.

For extra practice: Afterwards solve again using nodal analysis.



Given Variables:

. : . .

Calculate the following:

io (A) :

6 ✓

vo (V) :

19 ✓

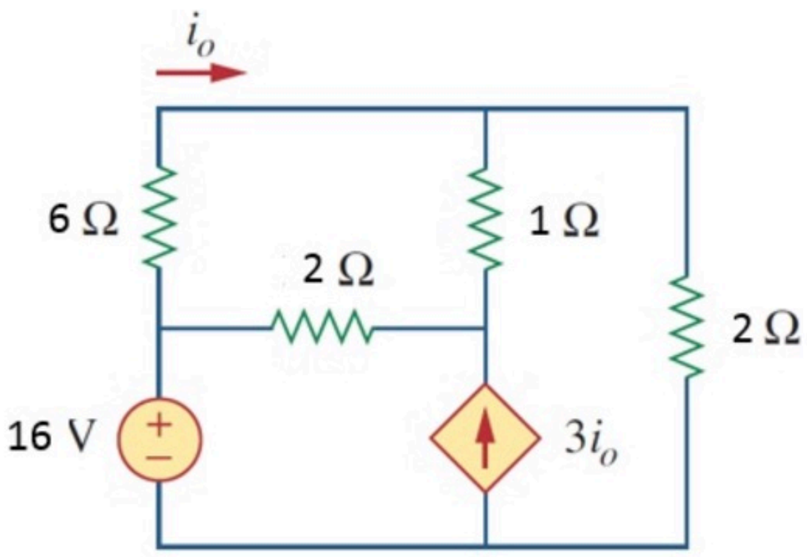
Hint: Use a supermesh

PP Nodal Mesh 019

Unlimited Attempts.

Find the current i_o. Solve using mesh analysis.

For extra practice: Afterwards solve again using nodal analysis.



Given Variables:

. : . .

Calculate the following:

io (A) :

1 ✓

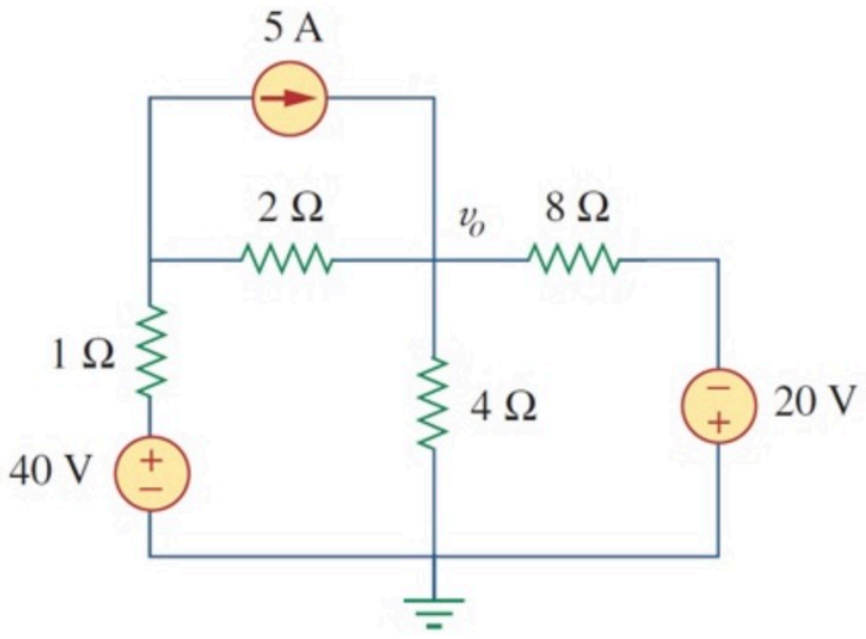
Hint: Use a supermesh

PP Nodal Mesh 020

Unlimited Attempts.

Find the voltage v_o. Solve using mesh analysis.

For extra practice: Afterwards solve again using nodal analysis.



Given Variables:

. : . .

Calculate the following:

vo (V) :

20 ✓

Hint: Can we find a mesh current directly?