

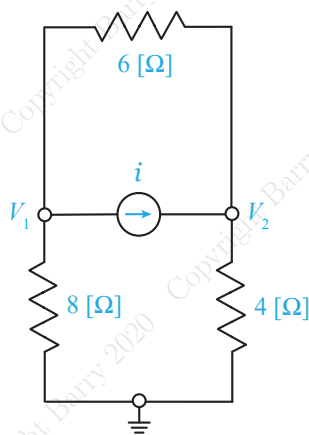
# NVA Worksheet

MEMS 0031 - Electrical Circuits

June 4, 2020

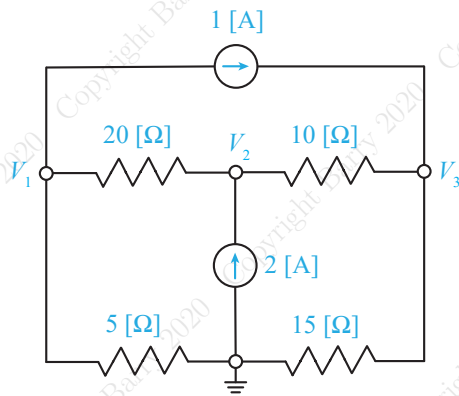
## Problem #1

Use NVA to solve for the nodal voltage given a source current of 1 [A].



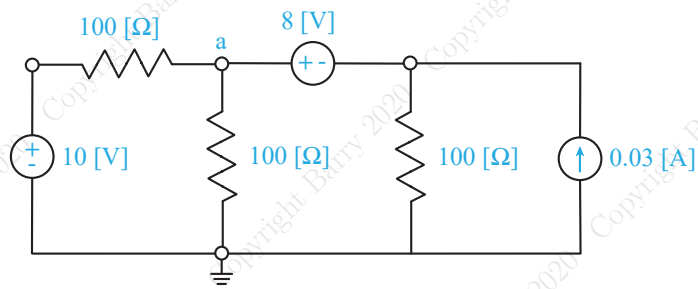
## Problem #2

Use NVA to solve for  $v_1$ ,  $v_2$  and  $v_3$  in the circuit shown below.



### Problem #3

Use NVA to find the node voltages in the circuit shown below.



## Problem #4

Use NVA to find  $i_x$  in the circuit shown below.

