

Homework #5

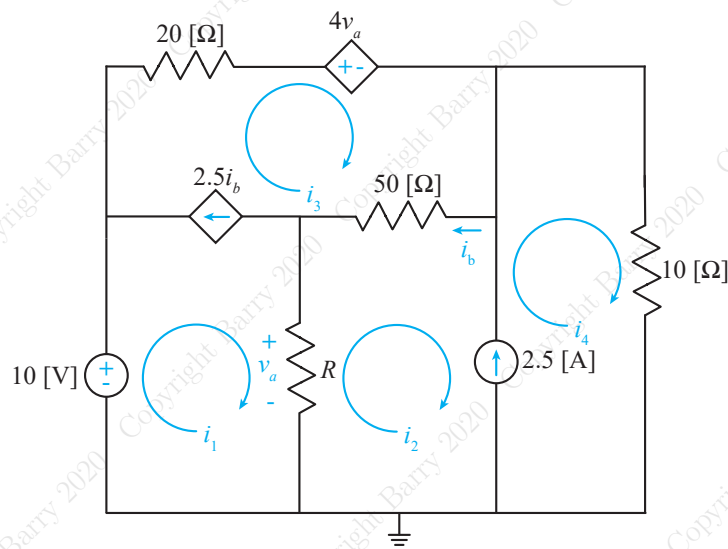
MEMS 0031 - Electrical Circuits

Assigned: June 5th, 2020

Due: June 10th, 2020 at 11:59 pm

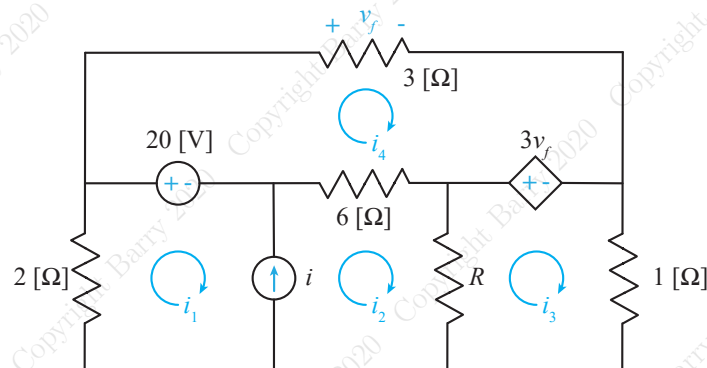
Problem #1

Using Mesh Current Analysis (MCA), determine the mesh currents i_1 through i_4 , given $R = 20 [\Omega]$. Note: if you use any other method than MCA to determine the mesh currents, your answer will be marked incorrect.



Problem #2

Using Mesh Current Analysis (MCA), determine the mesh currents i_1 through i_4 , given $i = 10 [\text{A}]$ and $R = 4 [\Omega]$. Note: if you use any other method than MCA to determine the mesh currents, your answer will be marked incorrect.



Using Mesh Current Analysis (MCA), determine the mesh currents i_1 through i_5 , given $R = 3\ [\Omega]$. Note: if you use any other method than MCA to determine the mesh currents, your answer will be marked incorrect.



Using Mesh Current Analysis (MCA), determine the mesh currents i_1 through i_{10} , given $R = 125\ [\Omega]$. Note: if you use any other method than MCA to determine the mesh currents, your answer will be marked incorrect.

