

# King Fahd University of Petroleum and Minerals

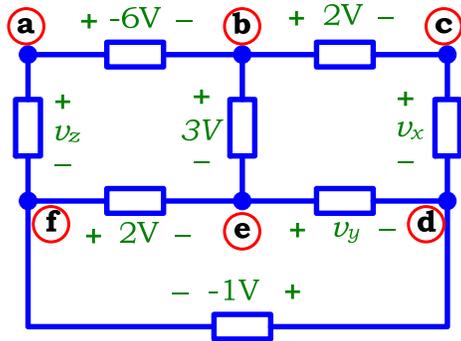
Electrical Engineering Department

EE 208: Electrical Systems

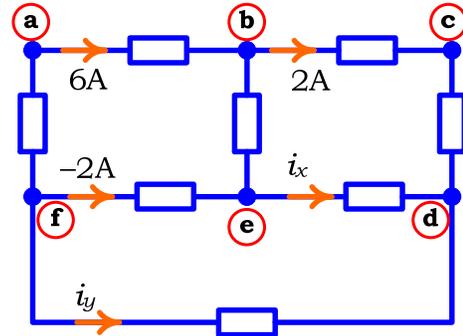
Instructor: Umar M. Johar

## Home Work # 2

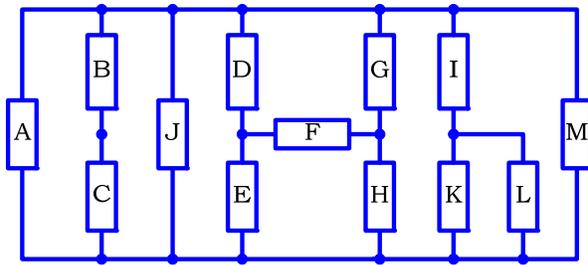
1. Determine voltages  $v_x$ ,  $v_y$  and  $v_z$  in the circuit give below.



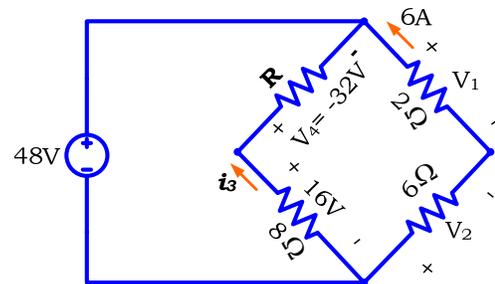
2. Determine the current  $i_x$  and  $i_y$  in the circuit give below.



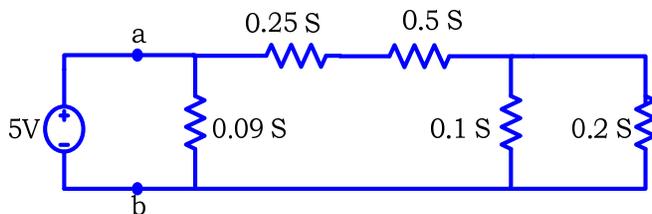
3. Determine which elements in the following circuit are connected in series & which are connected in parallel.



4. Calculate the unknown quantities in the following circuit.



5. In the given circuit, calculate:  $G_{eq}$  and  $R_{eq}$ .



6. Calculate the unknown currents in the following circuits.

