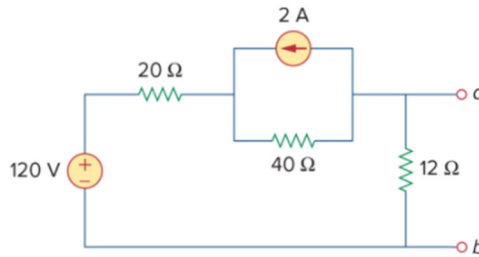


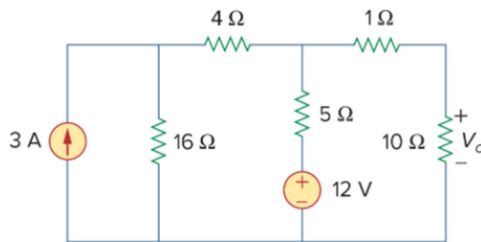
## EE1002 Tutorial 6

(Questions from the Textbook by Alexander & Sadiku, 7<sup>th</sup> edition Problems 4.37, 4.38, & 4.41)

1. Find the Norton equivalent with respect to terminals  $a$ - $b$  in the following circuit.

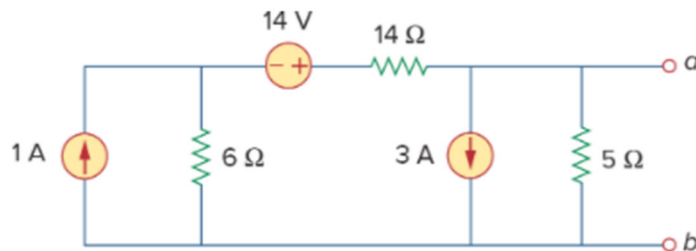


2. Apply Thevenin's theorem to find  $V_o$  in the following circuit.



**Question 3 below will not be discussed in the Tutorial class. It is an additional exercise for the students only.**

3. Find the Thevenin and Norton equivalents at terminals  $a$ - $b$  of the following circuit.



Answers:

1.  $R_N = 10 \Omega$ ;  $I_N = 666.7 \text{ mA}$ .
2.  $V_o = 12.8 \text{ V}$ .
3.  $R_{th} = R_N = 4 \Omega$ ;  $V_{th} = -8 \text{ V}$ ;  $I_N = -2 \text{ A}$ .