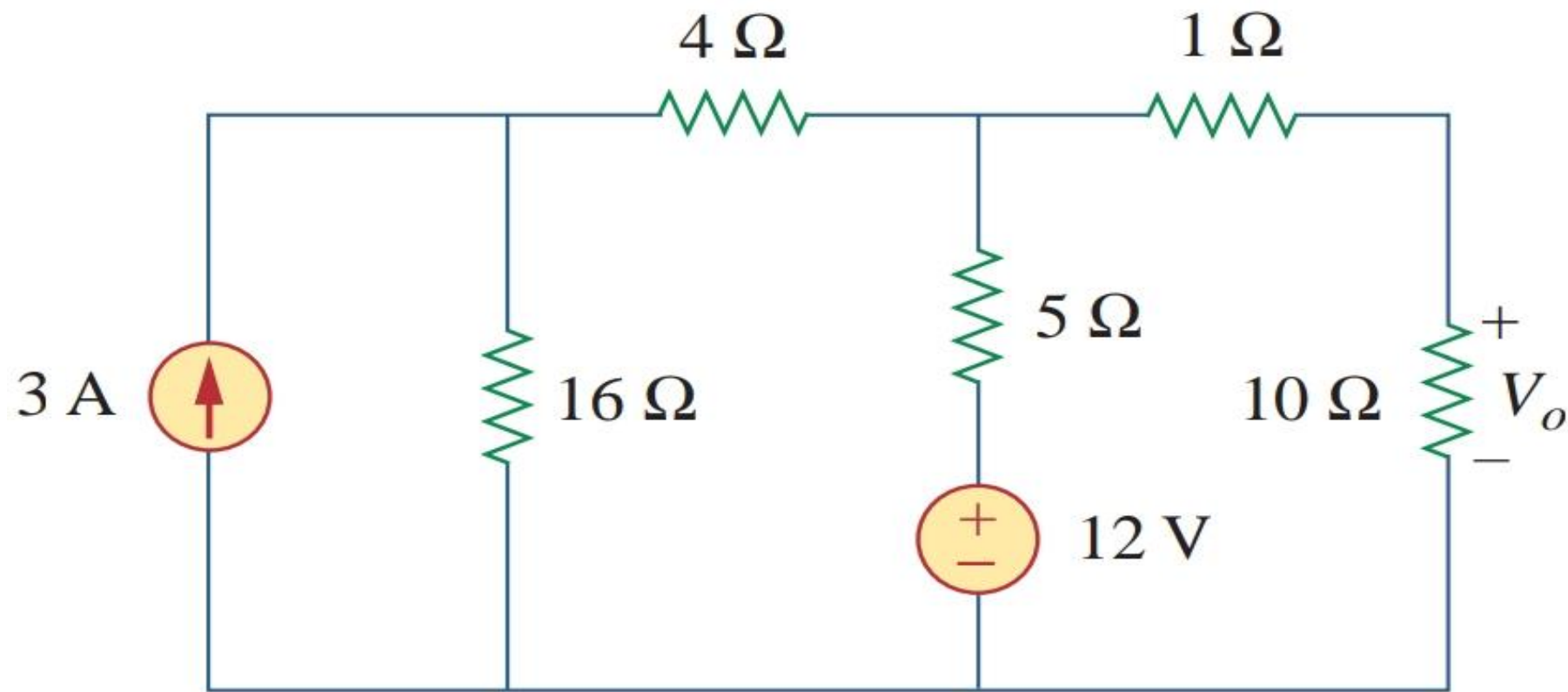
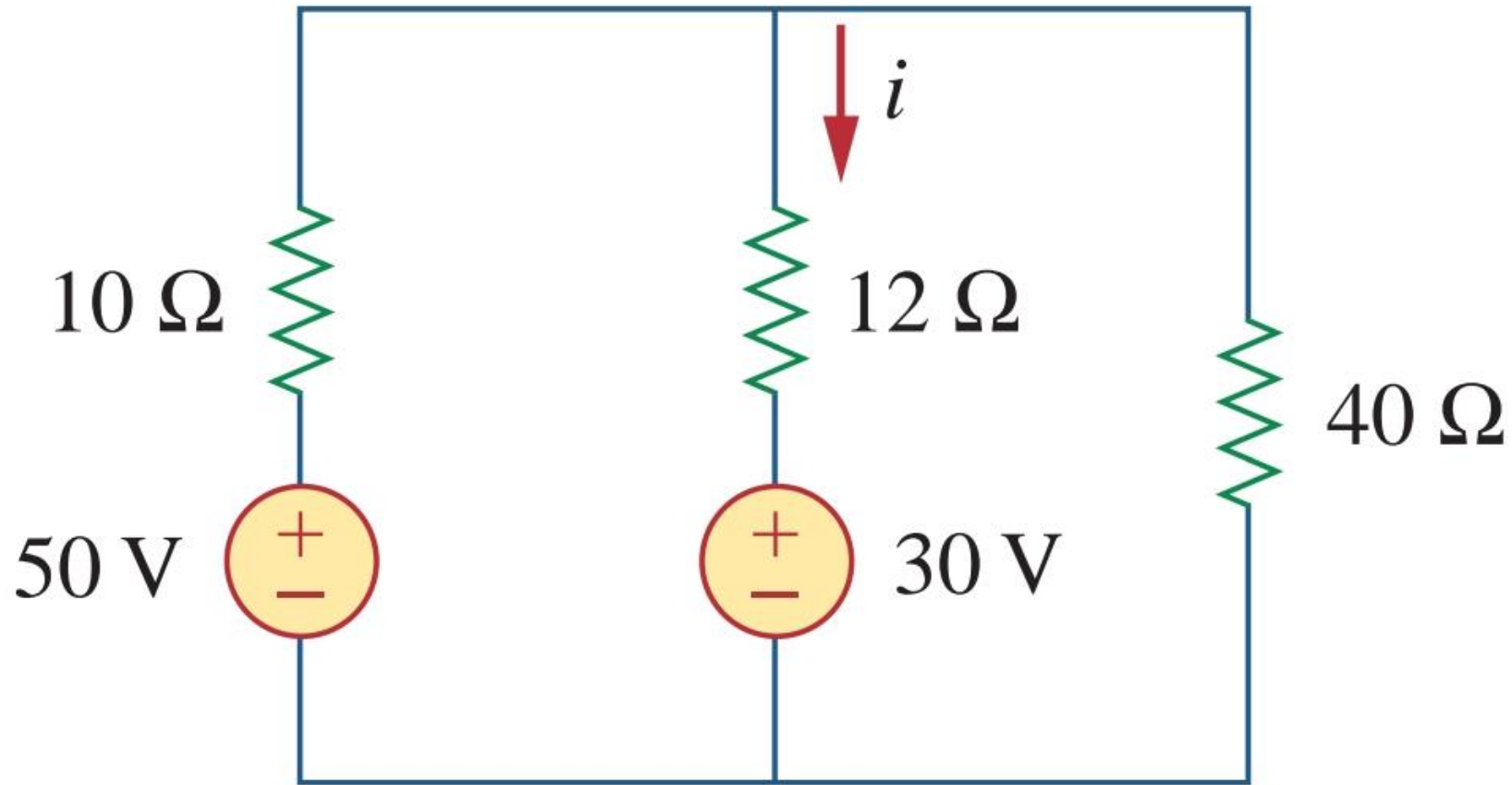


- 3 Apply Thevenin's theorem to find  $V_o$  in the circuit of Fig. 4.105.

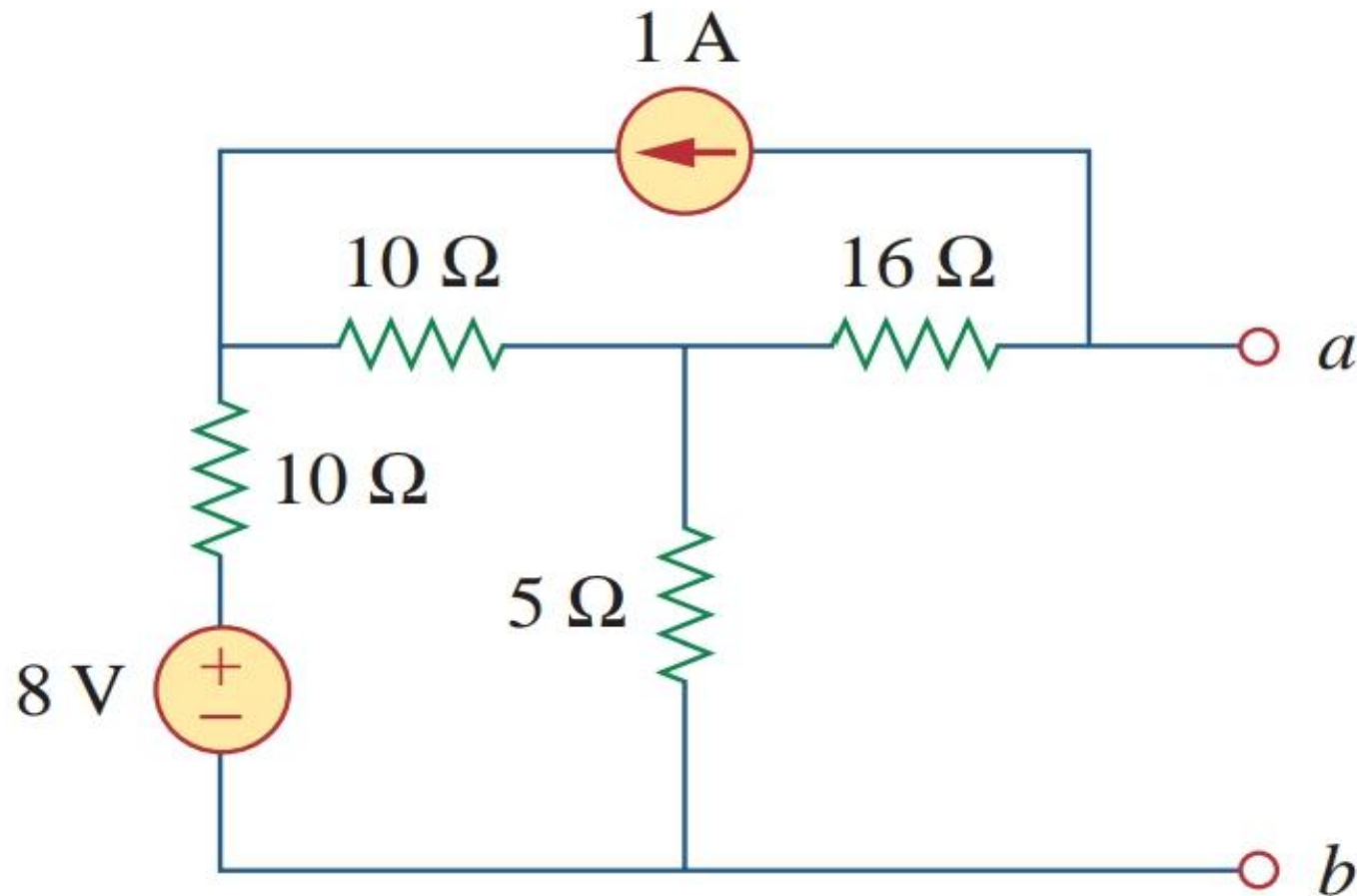


Find current  $i$  using Thevenin's equivalent.

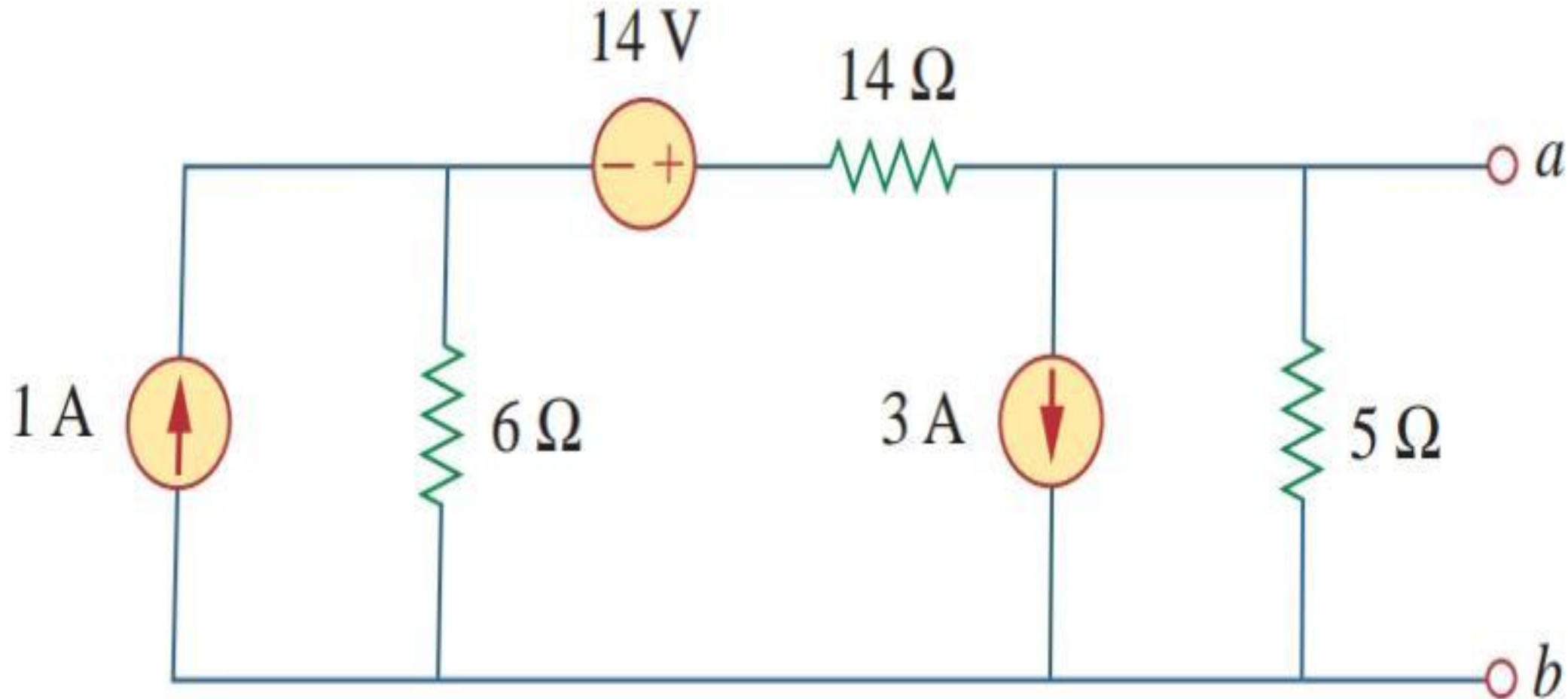


Obtain the Thevenin equivalent at terminals  $a$ - $b$  of the circuit in Fig. 4.106.

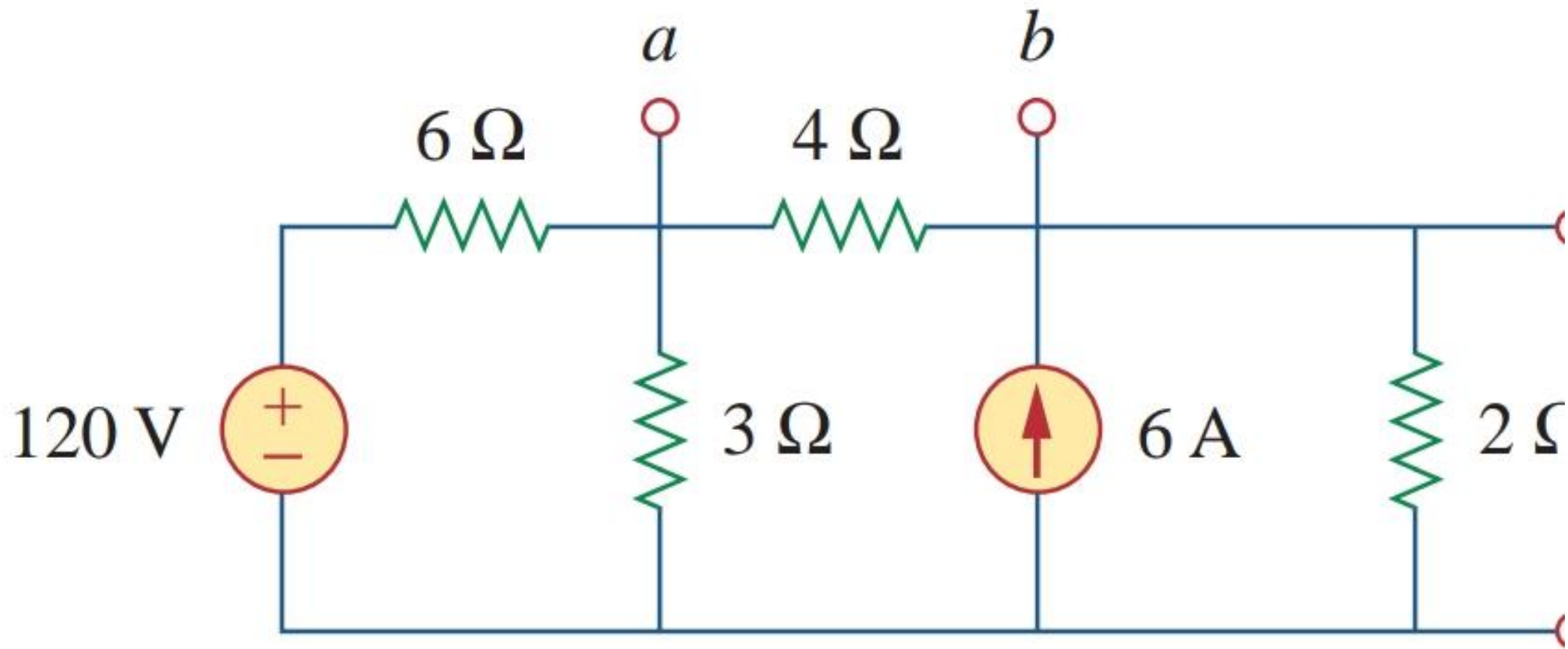
Ans.  
20 ohm  
-16.4 V



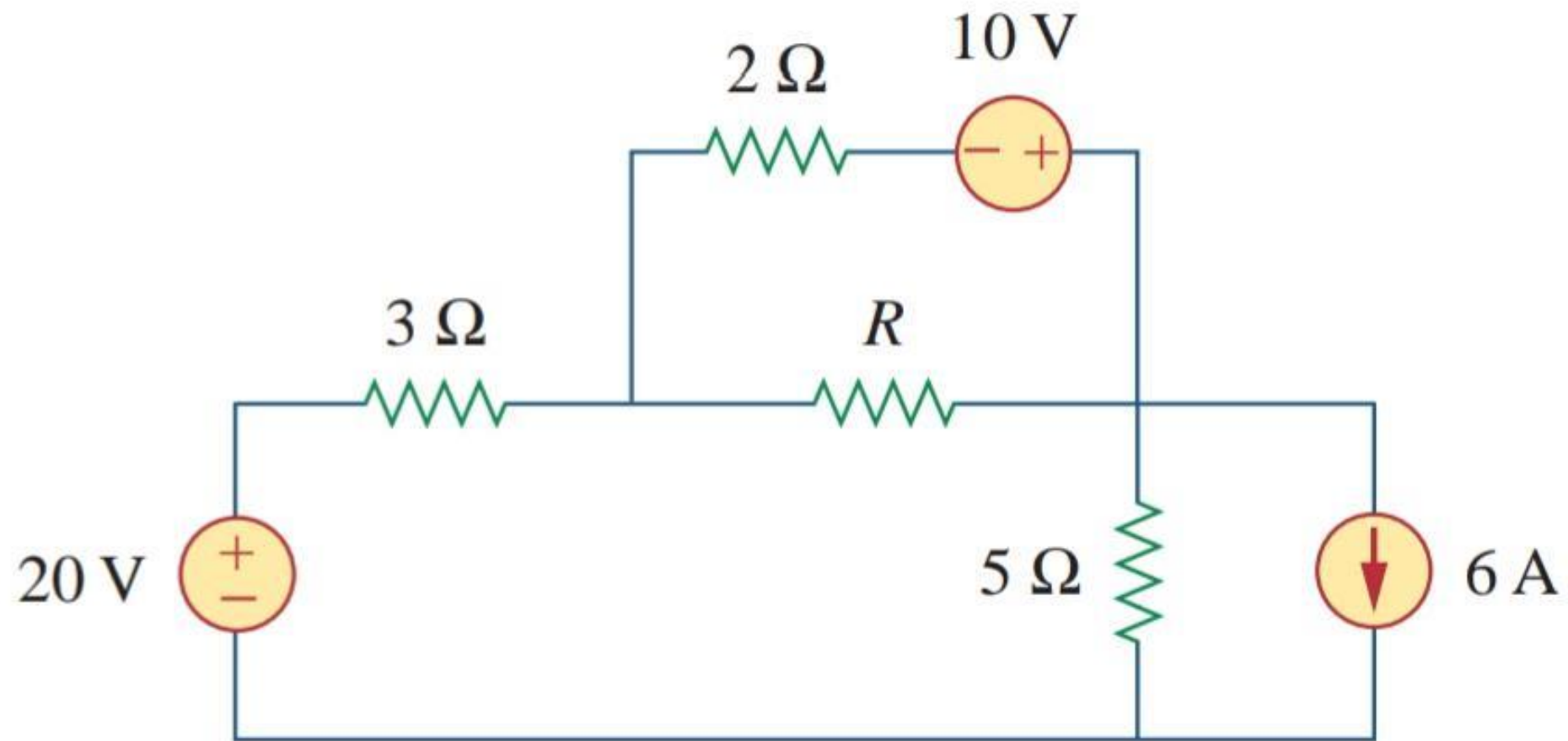
Find thevenin's and Norton's equivalent circuit across terminal ab. (Ans  $4\Omega, -8V, -2A$ )



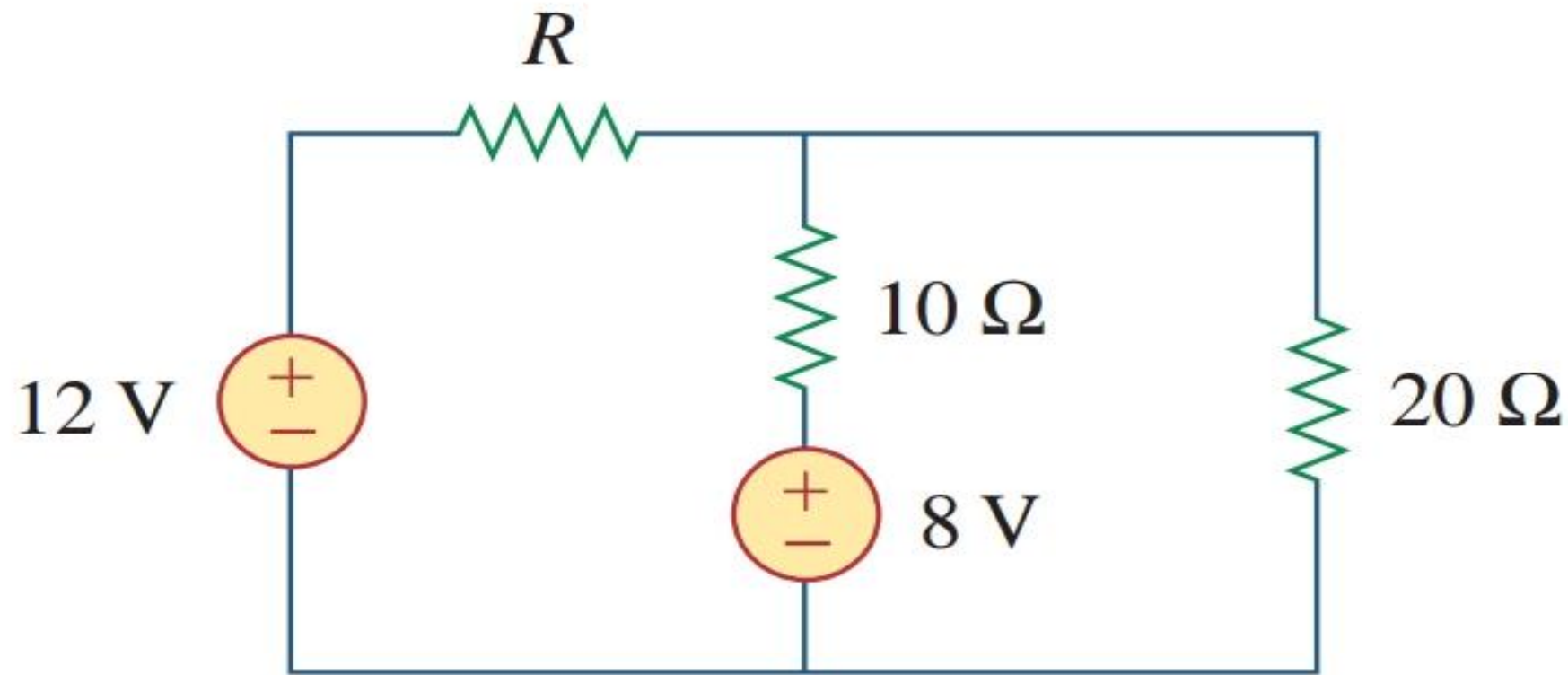
Find Norton's equivalent across terminal  
ab.(ans: 2ohm, 7A)



Find Max. Power delivered to  $R$ .



Compute the value of  $R$  that results in maximum power transfer to the  $10\text{-}\Omega$  resistor in Fig. 4.134. Find the maximum power.



Find Max. Power delivered to  $R_L$ .

