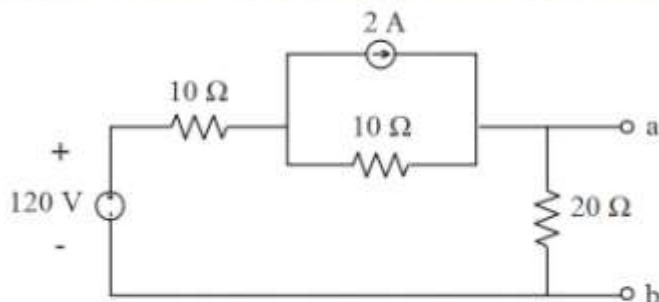


Find the Norton equivalent circuit with respect to terminals  $a-b$  in the following circuit.

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



Note: Two versions will be given to avoid misunderstandings, the text version (black) and the image version (blue). If the two contents conflict, please refer to the image version first.

$$R_N = 40 \, \Omega; I_N = 7 \, \text{A}$$

☐  $R_N = 40 \, \Omega; I_N = 7 \, \text{A}$

$$R_N = 10 \, \Omega; I_N = 5 \, \text{A}$$

☐  $R_N = 10 \, \Omega; I_N = 5 \, \text{A}$

$$R_N = 10 \, \Omega; I_N = 7 \, \text{A}$$

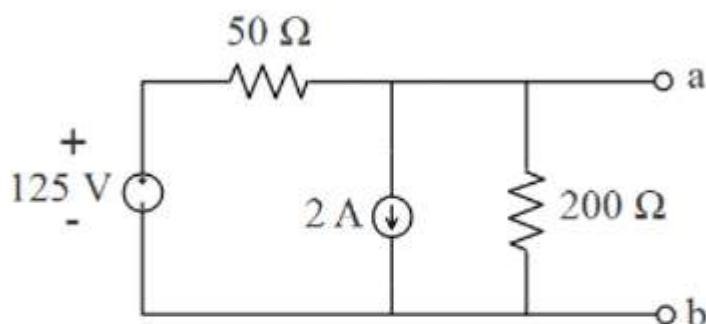
☒  $R_N = 10 \, \Omega; I_N = 7 \, \text{A}$

$$R_N = 40 \, \Omega; I_N = 5 \, \text{A}$$

☐  $R_N = 40 \, \Omega; I_N = 5 \, \text{A}$

Determine the Thevenin equivalent circuit with respect to terminals  $a-b$  in the following circuit.

Determine the Thevenin equivalent circuit with respect to terminals  $a-b$  in the following circuit.



Note: Two versions will be given to avoid misunderstandings, the text version (black) and the image version (blue). If the two contents conflict, please refer to the image version first.

$R_{th} = 40 \, \Omega$ ,  $V_{th} = 180 \, V$

☐  $R_{th} = 40 \, \Omega$ ,  $V_{th} = 180 \, V$

$R_{th} = 250 \, \Omega$ ,  $V_{th} = 20 \, V$

☐ 

$R_{th} = 250 \, \Omega$ ,  $V_{th} = 180 \, V$

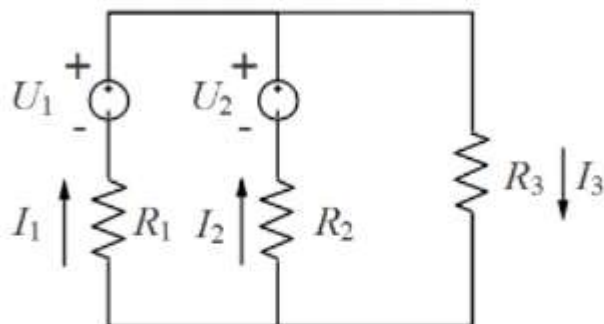
☐  $R_{th} = 250 \, \Omega$ ,  $V_{th} = 180 \, V$

$R_{th} = 40 \, \Omega$ ,  $V_{th} = 20 \, V$

☒  $R_{th} = 40 \, \Omega$ ,  $V_{th} = 20 \, V$

If  $U_1 = 40\text{ V}$ ,  $U_2 = 20\text{ V}$ ,  $R_1 = R_2 = 4\ \Omega$ , and  $R_3 = 13\ \Omega$ , apply the Thevenin's theorem to determine  $I_3$  in the following circuit.

If  $U_1 = 40\text{ V}$ ,  $U_2 = 20\text{ V}$ ,  $R_1 = R_2 = 4\ \Omega$ , and  $R_3 = 13\ \Omega$ , apply the Thevenin's theorem to determine  $I_3$  in the following circuit.



Note: Two versions will be given to avoid misunderstandings, the text version (black) and the image version (blue). If the two contents conflict, please refer to the image version first.

15 A

☒ 15 A

0.67 A

☐ 0.67 A

2.5 A

☐ 2.5 A

2 A

☒ 2 A