

Practice Problem 4.7

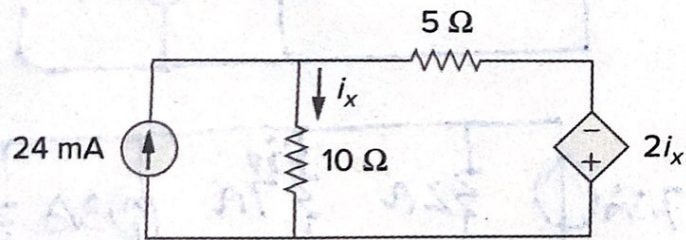
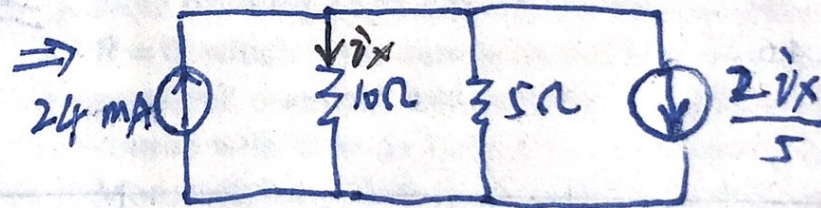


Figure 4.22
For Practice Prob. 4.7.

Use source transformation to find i_x in the circuit shown in Fig. 4.22.

Answer: 7.059 mA.



$$i_x = (24 - 0.4 i_x) \cdot \frac{5}{15}$$

$$\Rightarrow i_x = \frac{24}{3.4} = 7.059 \text{ mA}$$