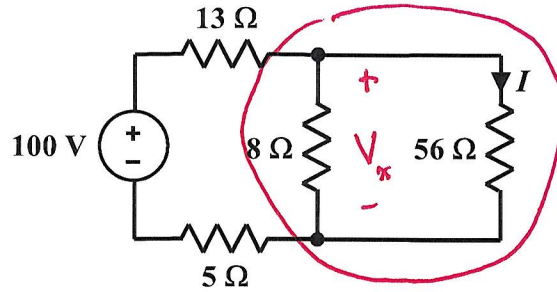


EE 2240
Homework Problem #013



$$\begin{aligned} 8\Omega \parallel 56\Omega &= \frac{8 \cdot 56}{8 + 56} = \frac{448}{64} \\ &= 7\Omega \end{aligned}$$

Determine the value of I .

$$V_x = \frac{7}{13 + 7 + 5} \cdot 100\text{V} = \frac{700}{25} = 28\text{V}$$

$$I = \frac{V_x}{56\Omega} = \frac{1}{2}\text{A}$$