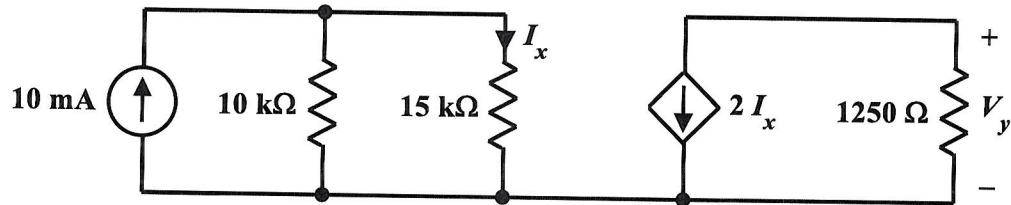


EE 2240
Homework Problem #046



Determine the value of V_y .

$$I_x = \frac{10 \text{ k}\Omega}{10 \text{ k}\Omega + 15 \text{ k}\Omega} \cdot 10 \text{ mA}$$

$$= 4 \text{ mA}$$

$$V_y = -1250 \Omega (2 I_x)$$

$$= -1250 \Omega (8 \text{ mA})$$

$$= -10 \text{ V}$$