$$\begin{aligned} 20v - \left[\left(10k\Omega + 5k\Omega + 2k\Omega + 3k\Omega + 10k\Omega\right)*I\right] + 10v - 2V_x &= 0\\ 30v - \left[\left(30k\Omega\right)*I\right] - 2V_x &= 0\\ 30v - 30k\Omega I - 2V_x &= 0 \end{aligned}$$

$$V_x = 10v - 5k\Omega$$

$$2V_x = 2(10v - 5k\Omega)$$

$$2v_x = 20v - 10k\Omega$$

$$\begin{aligned} 30v - 30k\Omega I - (20v - 10k\Omega I) &= 0 \\ 30v - 30k\Omega I - 20v + 10k\Omega I &= 0 \\ 10v - 30k\Omega I + 10k\Omega I &= 0 \\ 10v - 20k\Omega I &= 0 \\ -20k\Omega I &= -10v \\ I &= \frac{10v}{20k\Omega} \\ I &= .5mA \end{aligned}$$