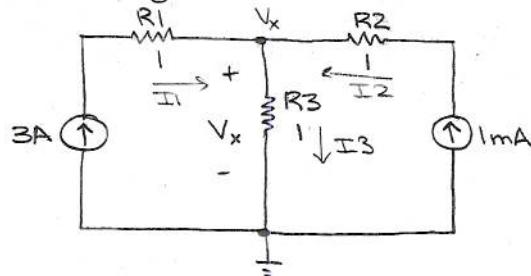


KCL Problems

5. Use any method to find V_x



Node method - KCL $\Rightarrow \sum \text{current in} = \sum \text{current out}$

Write currents in terms of voltages (if needed)

$$I_1 = 3A \quad I_2 = 1mA \quad I_3 = \frac{V_x}{R_3} \quad (2\text{pts})$$

Node V_x .

$$I_1 + I_2 = I_3$$

$$3A + 1mA = \frac{-V_x}{R_3} \quad (2\text{pts})$$

$$\boxed{V_x = 3.001 \text{ V}}$$