

Sample Problems - Solutions

KVL, KCL & Power

1) For the circuit shown below, determine the voltage for each of the resistors and label the values on the diagram.

$$\text{KVL: } \sum V_{\text{rises}} = \sum V_{\text{drops}}$$

Assume I_s clockwise:

$$10 \text{ V} = 20 I_s + 10 I_s + 20 \text{ V} + 30 I_s$$

(note: if all resistors $k\Omega$, drop k and remember answer will be in mA)

$$\text{Solving: } -10 \text{ V} = 60 I_s \Rightarrow I_s = -1/6 \text{ mA (counter clockwise)}$$

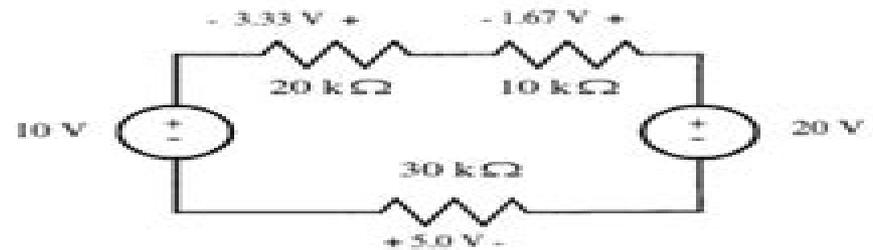
Applying Ohms Law,

$$V_{20k} = 20/6 = 10/3 \text{ V}$$

$$V_{10k} = 10/6 = 5/3 \text{ V}$$

$$V_{30k} = 30/6 = 5 \text{ V}$$

Now, label diagram with voltage drops:



2) In the circuit shown below, the current through the $3 \text{ k}\Omega$ resistor is measured to be 4 mA . Determine the source voltage (V_s) and source current (I_s).

$$V_{3k} = V_{12k} = (4 \text{ mA})(3 \text{ k}\Omega) = 12 \text{ V}$$

$$I_{12k} = (12 \text{ V})/(12 \text{ k}\Omega) = 1 \text{ mA}$$

$$I_s = I_{3k} + I_{12k} = \mathbf{5 \text{ mA}}$$

$$\begin{aligned} V_s &= V_{2k} + V_{3k} \quad (\text{KVL}) \quad \text{or} \quad V_{2k} + V_{12k} \\ &= (2 \text{ k}\Omega)(5 \text{ mA}) + 12 \text{ V} = \mathbf{22 \text{ V}} \end{aligned}$$



Kvl And Kcl Problems Solutions

Erwin Kreyszig



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