Ex:


Calculate $i_{1}$.

Sol'n: If we consider the voltage-loop on the right side, we have a voltage divider, but with a minus sign because of the polarity of the $v_{1}$ measurement.

$$
v_{1}=-(15 \mathrm{~V}+3 \mathrm{~V}) \frac{20 \mathrm{k} \Omega}{20 \mathrm{k} \Omega+100 \mathrm{k} \Omega}=-18 \mathrm{~V} \cdot \frac{1}{6}=-3 \mathrm{~V}
$$

