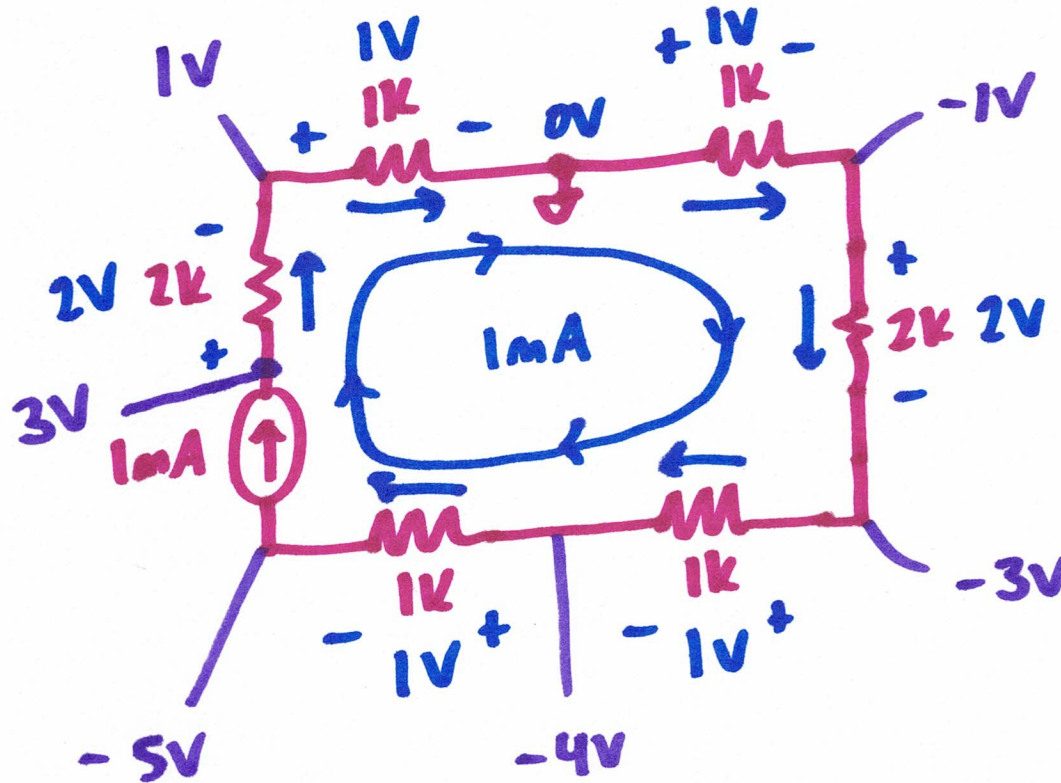
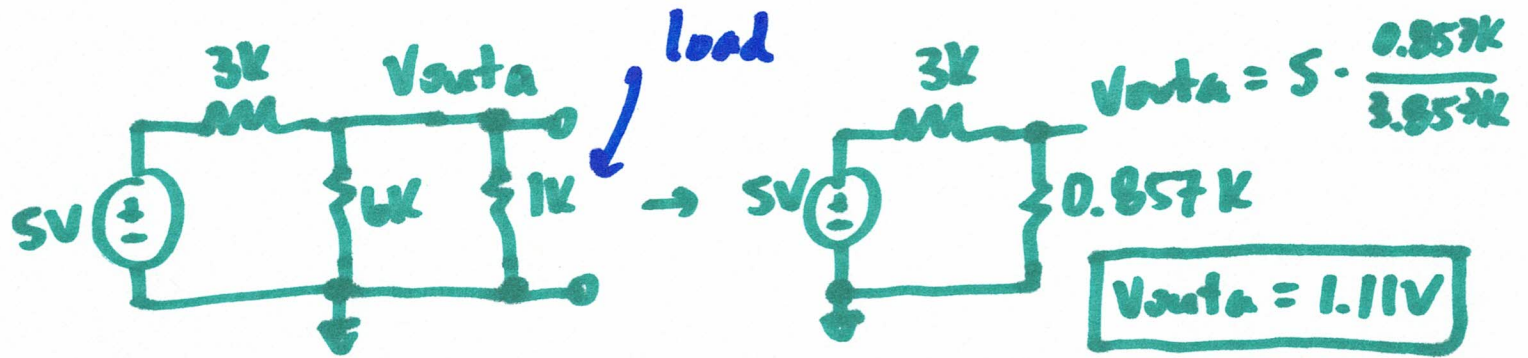


EE 220: Circuits I

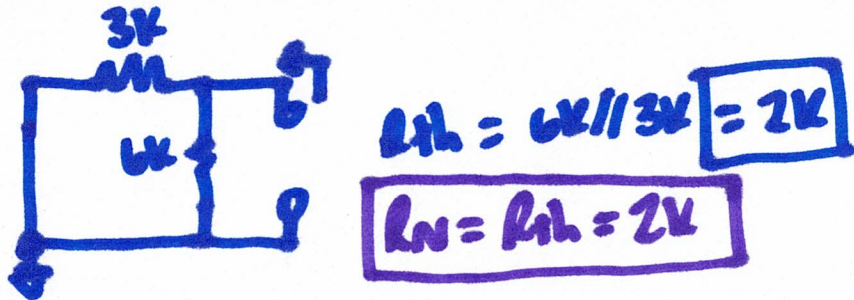
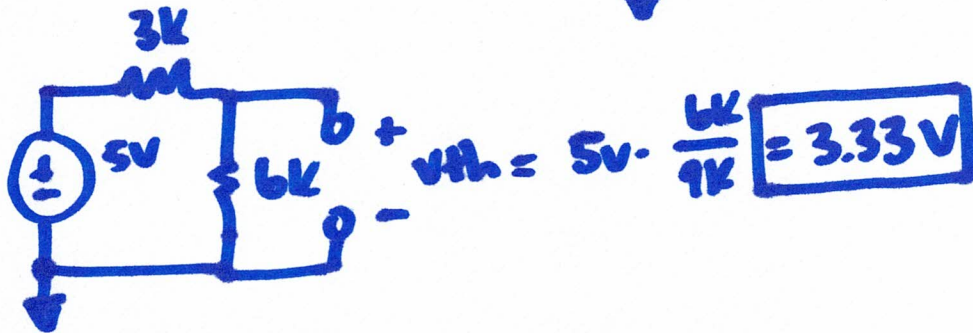
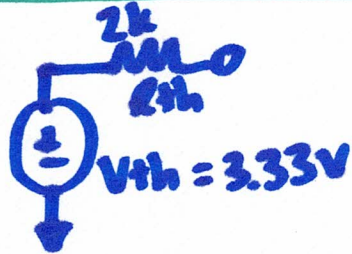
HW7.10



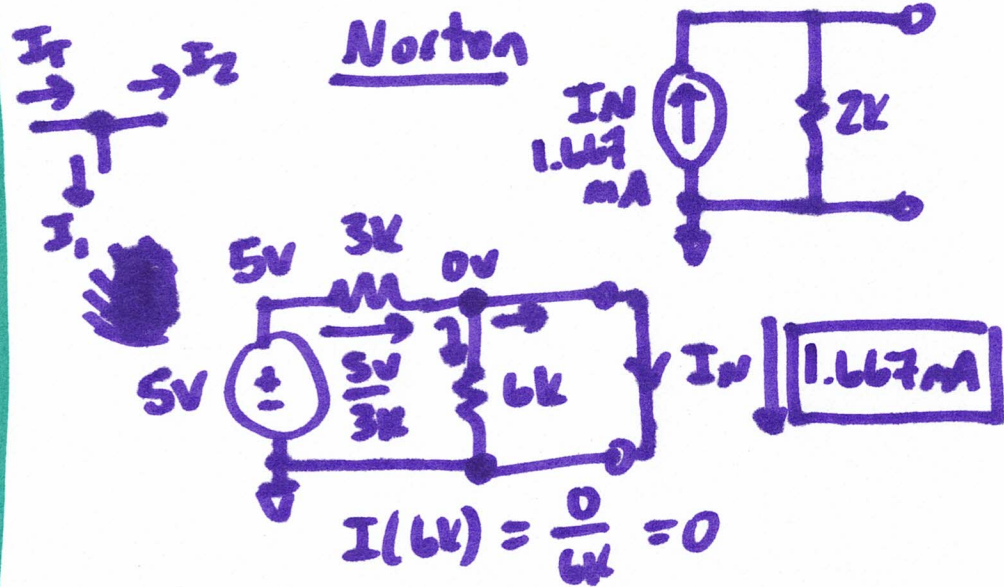
HW7.2A



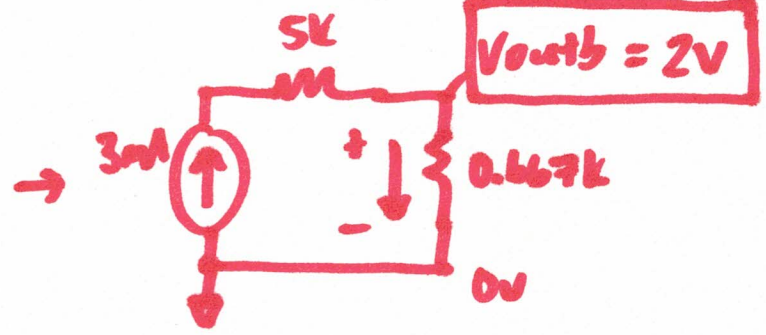
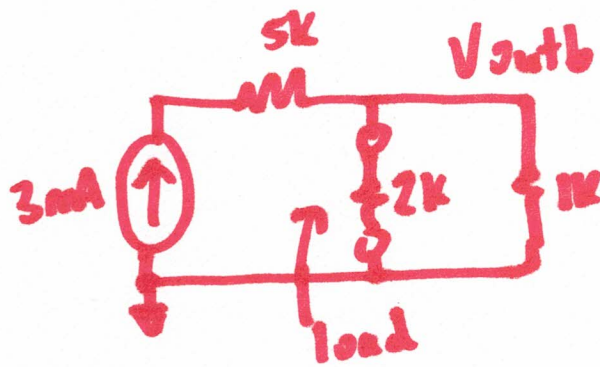
Thevenin



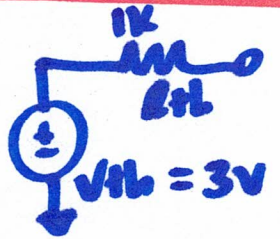
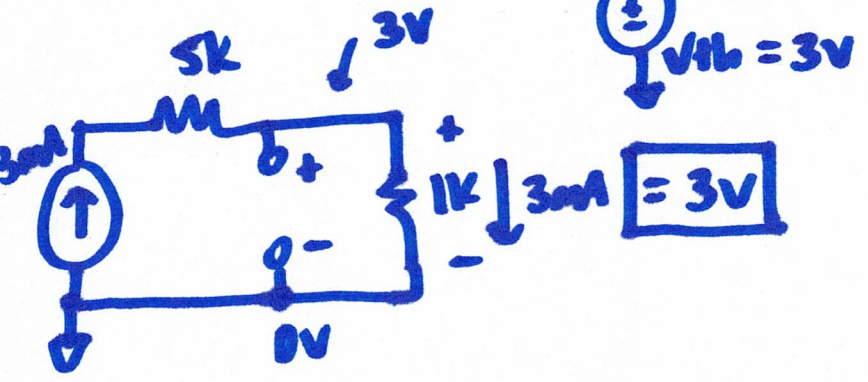
Norton



HW7.2B

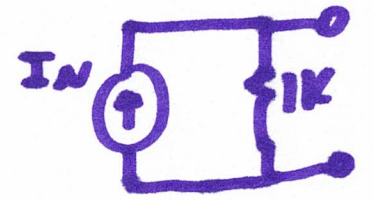
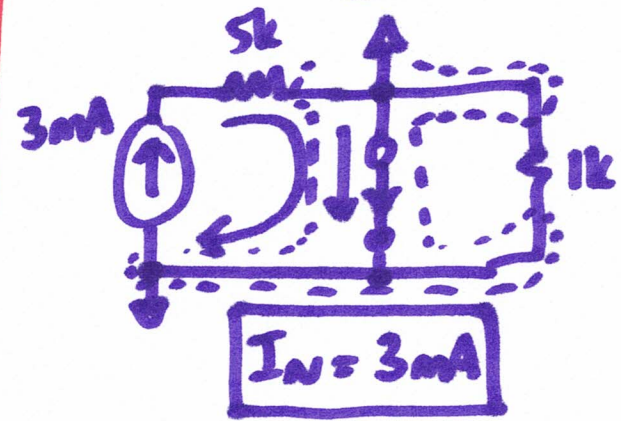


Thevenin

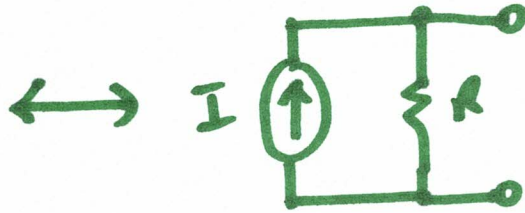
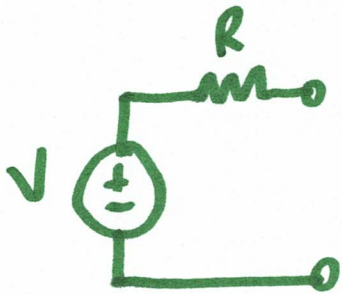


$R_{th} = 1k$
 $R_N = R_{th} = 1k$

Norton

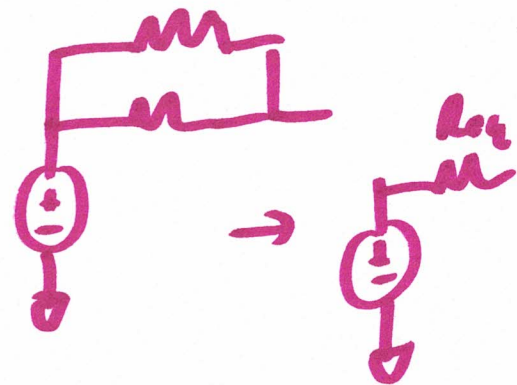
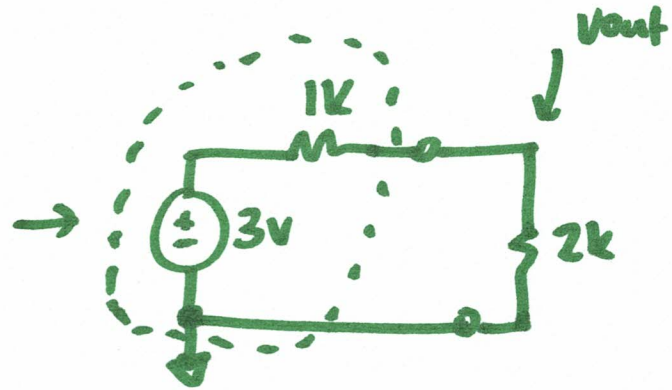
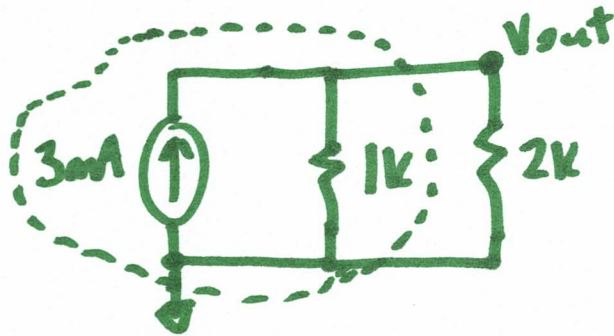


Source transformation

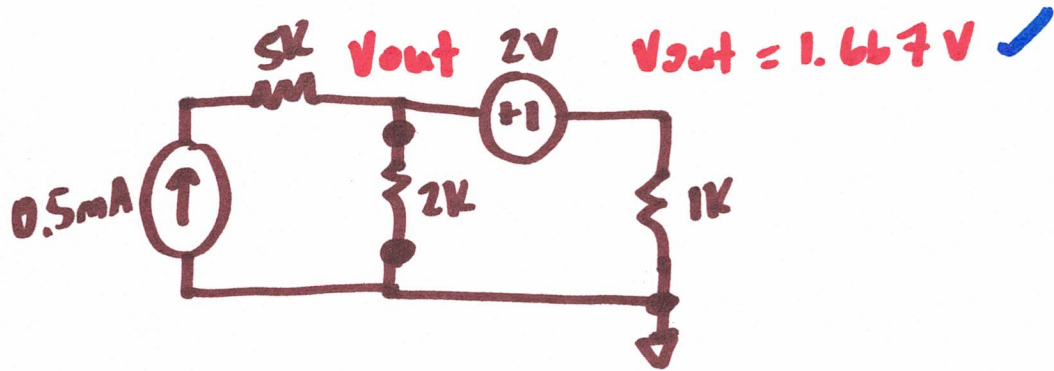


Ohm's Law:

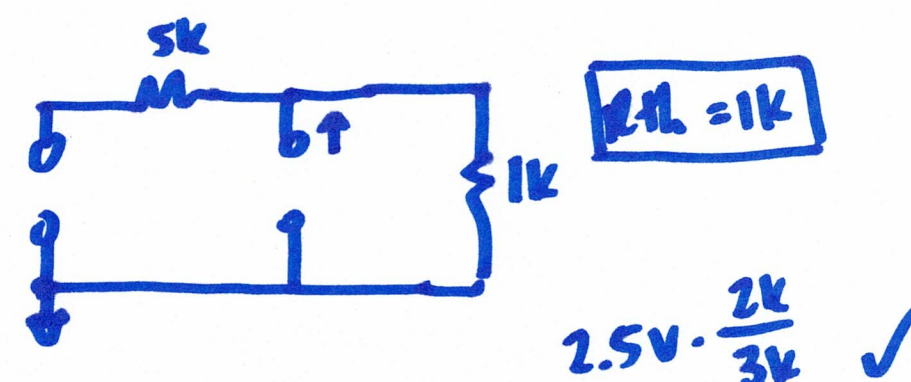
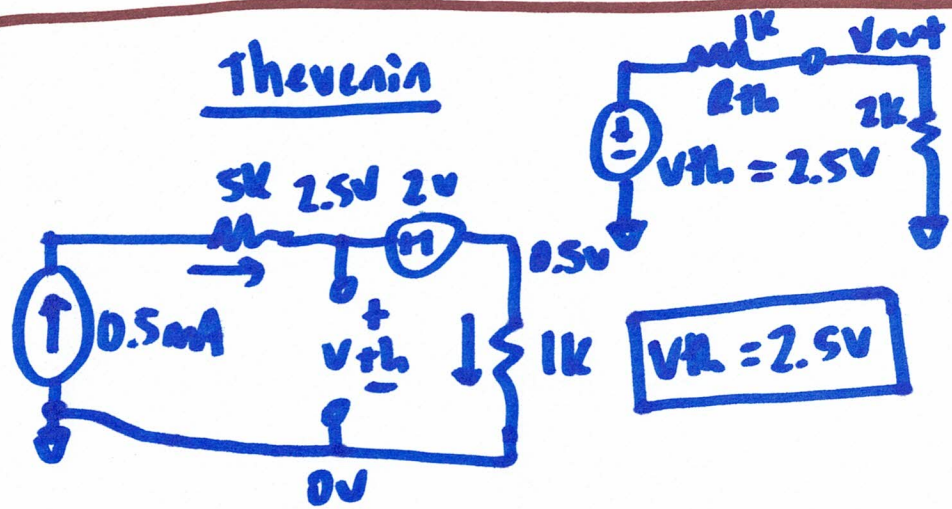
$$\begin{aligned} V &= IR \\ I &= V/R \\ R &= V/I \end{aligned}$$



HWB: 1B



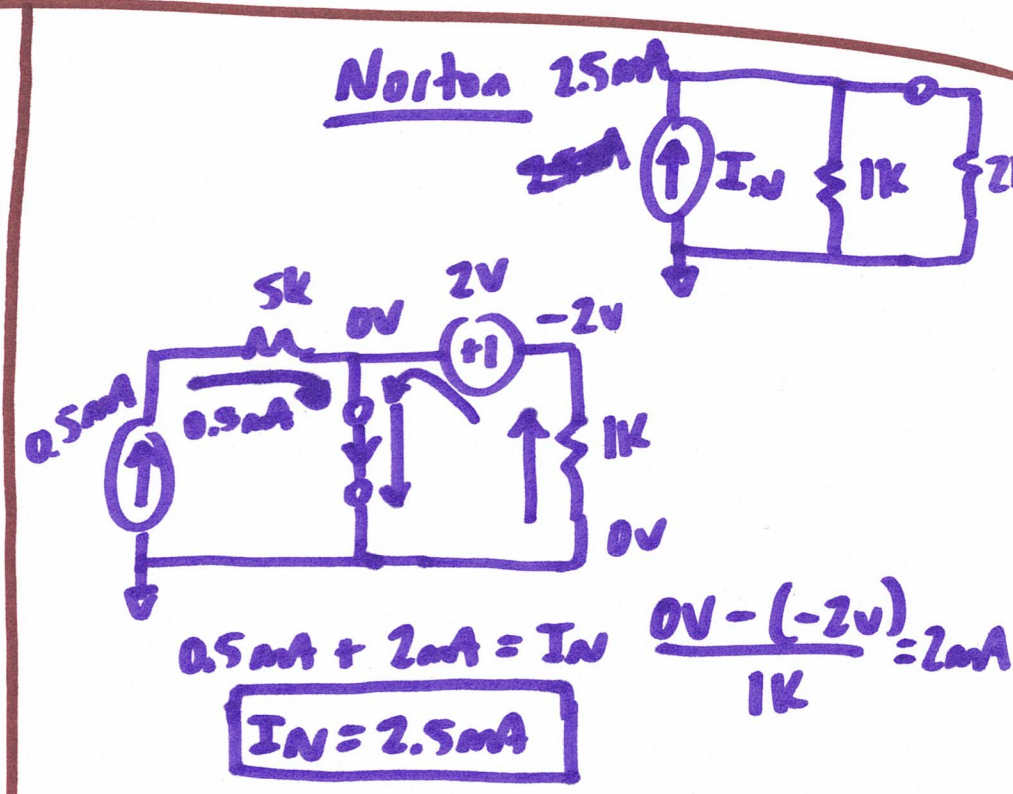
Thevenin



$2.5\text{V} \cdot \frac{2\text{k}}{3\text{k}}$ ✓

$= 1.667\text{V}$

Norton



$0.5\text{mA} + 2\text{mA} = I_N$ $\frac{0\text{V} - (-2\text{V})}{1\text{k}} = 2\text{mA}$

$I_N = 2.5\text{mA}$