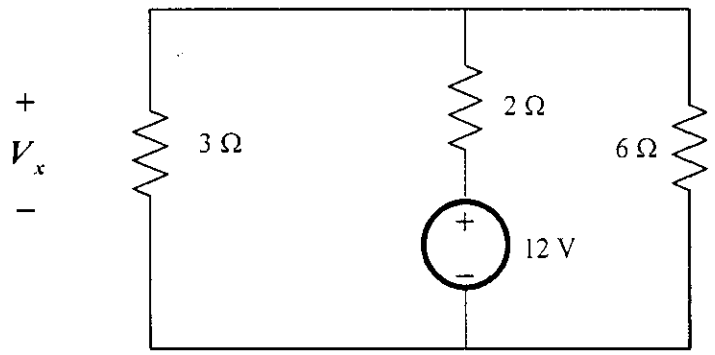
EE 204-08 – Fall 2009
Quiz 2

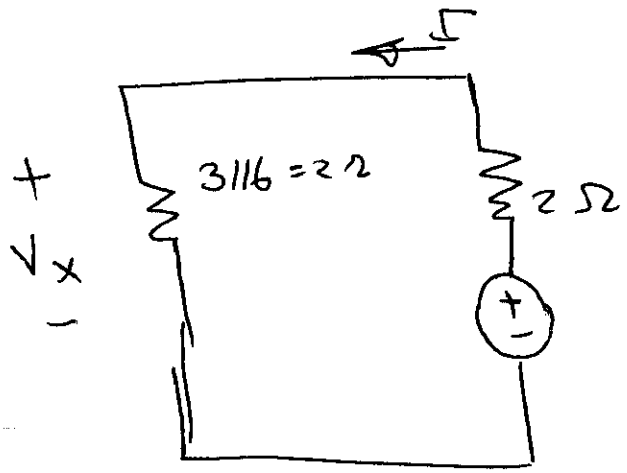
SEC	SER	ID	NAME



For the Circuit shown above Find V_x **using circuit reduction method only**? NO Voltage or Current division and no Source Transformation

Combining the 6Ω and 3Ω (parallel)

$$\Rightarrow \quad 3 \| 6 = \frac{(3)(6)}{3+6} = 2\,\Omega$$



KVL $\quad -12 + 4I = 0$

$$\Rightarrow I = 3\,A$$

$$V_x = 2(3) = 6\,V$$