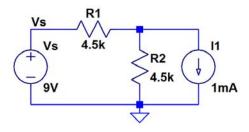
## Midterm Exam – EE 220 Circuits I Spring 2017 – University of Nevada, Las Vegas

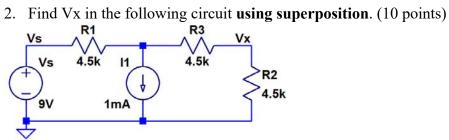
NAME:	

Closed book and notes.

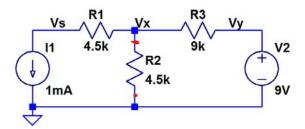
## Show your work for credit

1. Find the current, in the following circuit, that flows in Vs. (10 points)

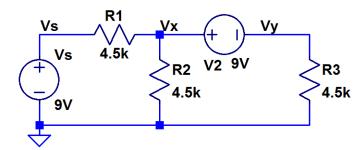




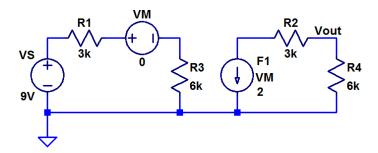
3. Find the voltage Vx in the circuit seen below. Then find the Thevenin equivalent circuit, with R2 removed, at the terminals marked by dots. Show that your Thevenin circuit is correct by comparing the value you calculated for Vx to the one you get when you put R2 across the terminals of your Thevenin equivalent. (20 points)



4. Using mesh analysis find the voltage Vx in the following circuit. (20 points)



## 5. Find Vout in the following circuit. (20 points)



6. Find Vx in the following circuit. (20 points)

