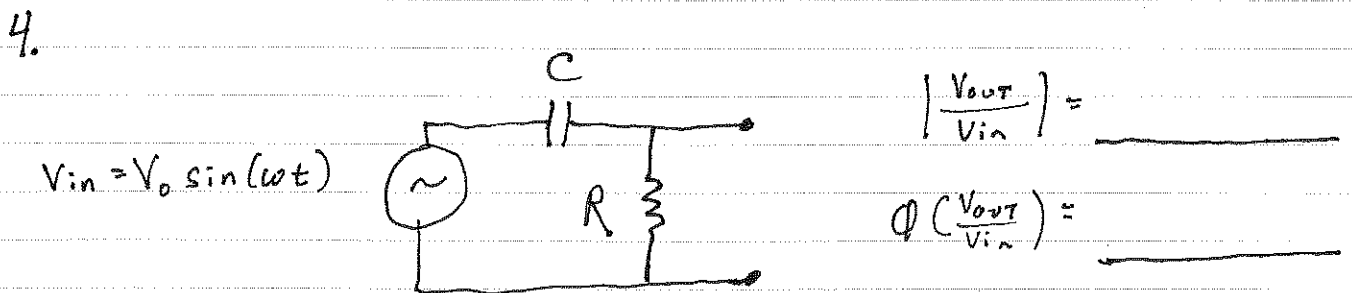
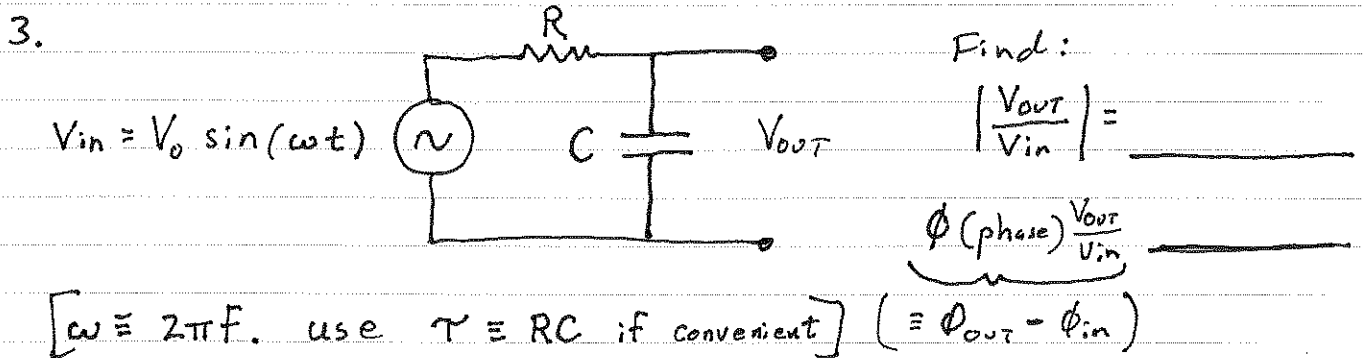
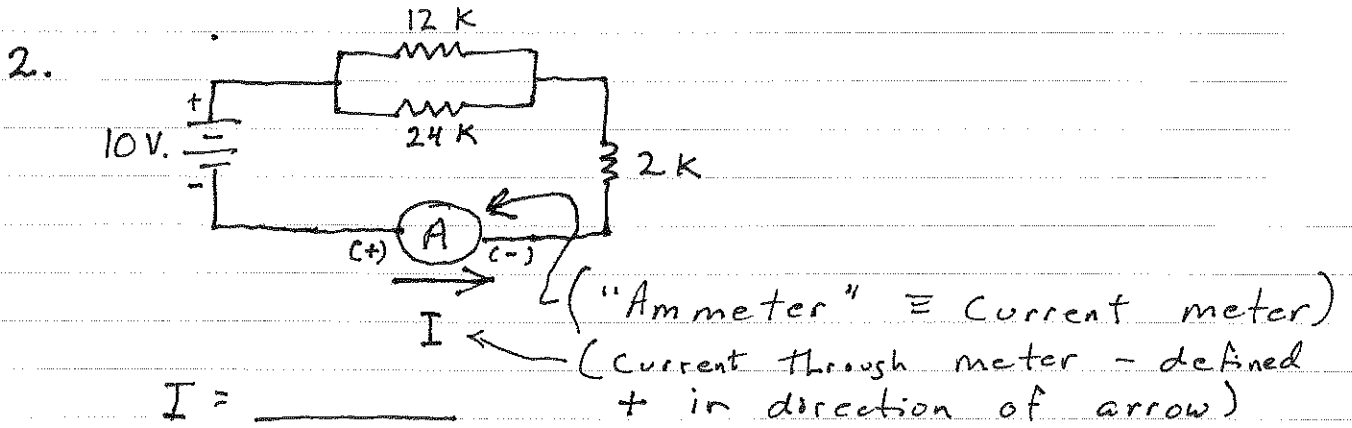
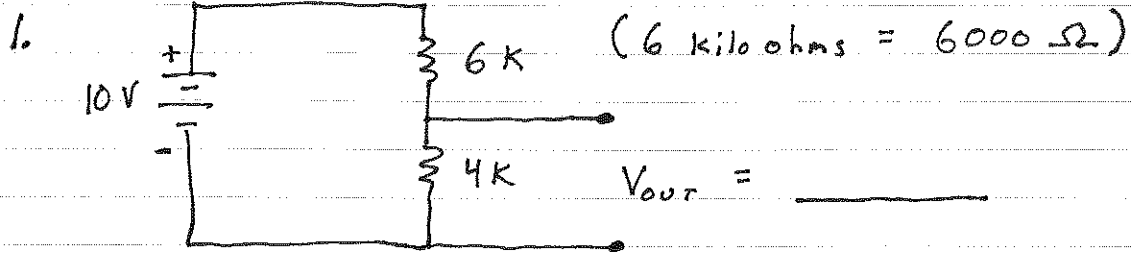
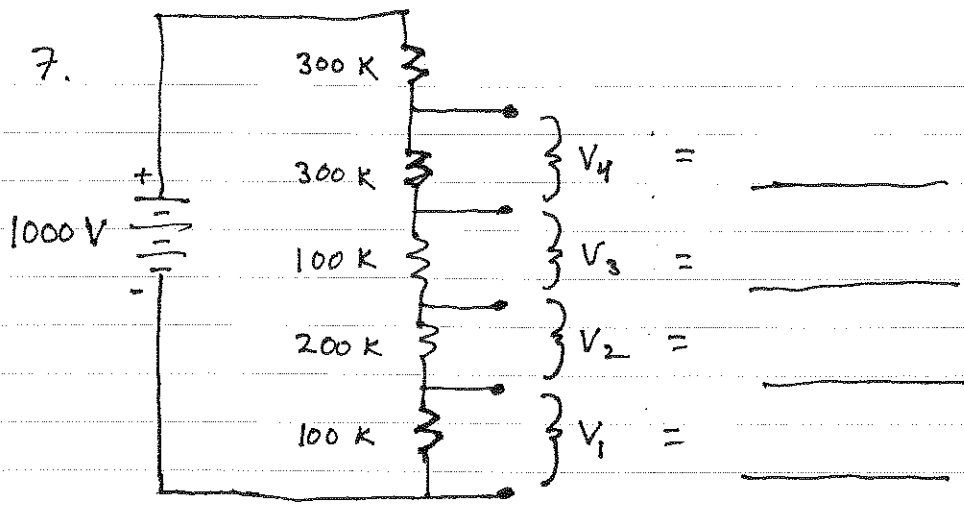


Ph 623 — Prob Set #1

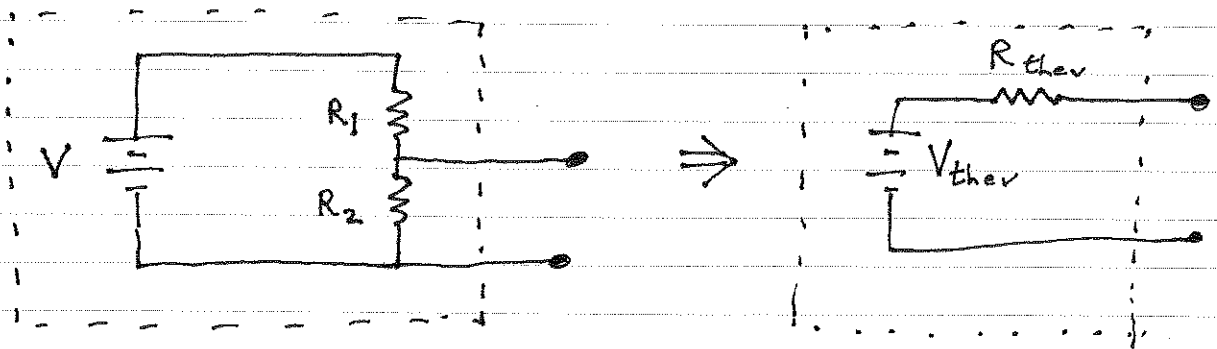


5. Sketch $\left| \frac{V_{out}}{V_{in}} \right|$ vs. ω on log-log plot for 3 + 4.
 (Show asymptotes)

6. Sketch ϕ vs ω on lin-log plot for 3 + 4.
 $\uparrow \phi \quad \uparrow \omega$

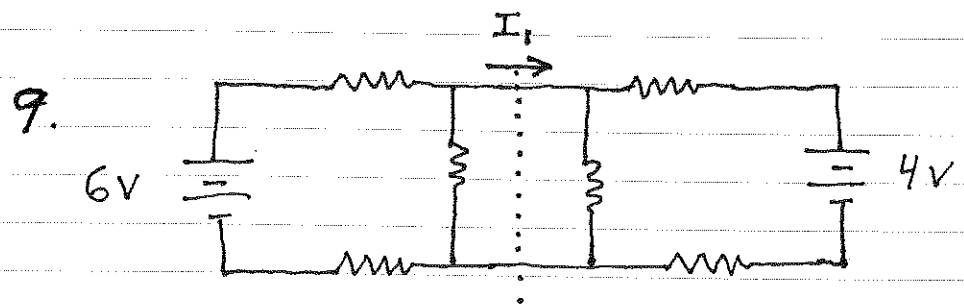


8. Find Thevenin equivalent circuit:



$V_{th} =$ _____ $R_{th} =$ _____

(This result will be worth memorizing)



All resistors are 3K ohms. Find I_1 .
 (Suggestion: Find Thevenin equivalents for left and right halves of the circuit separately, then hook them together.)