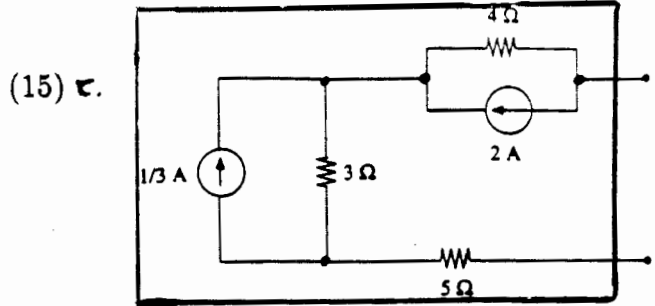
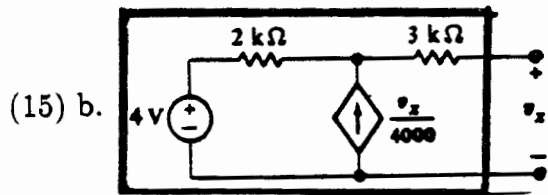
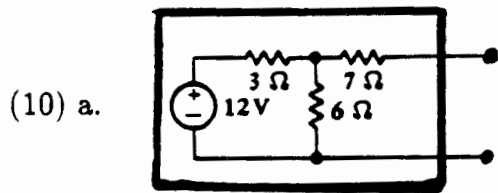
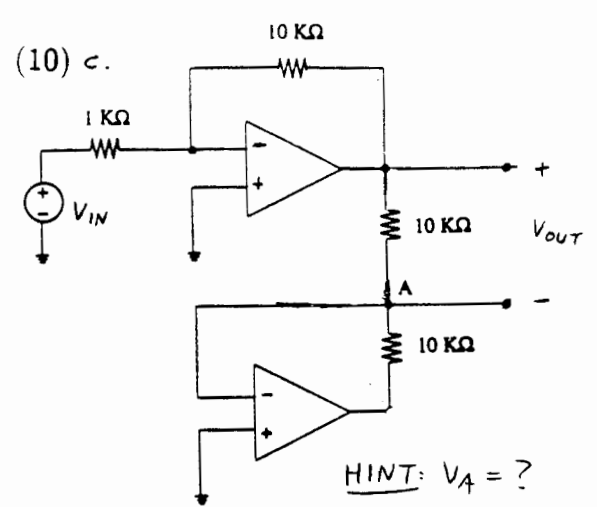
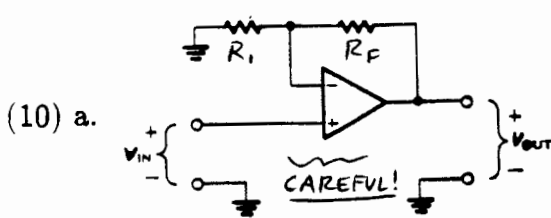


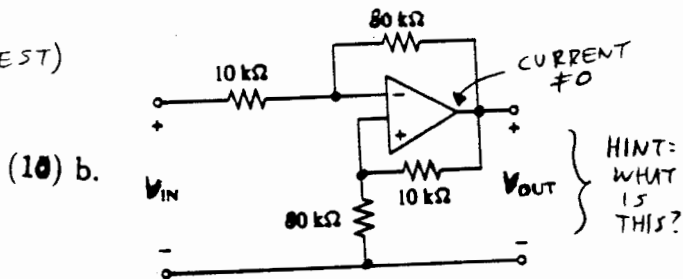
- (40) 1. Compute the Thevenin and Norton equivalents of each of the three circuits below.
 NOTE: Your final answer to (b) should NOT contain v_x ! Try simplifying (c) first.



- (30) 2. Using the "golden rules" for op-amps, compute $\frac{V_{OUT}}{V_{IN}}$ for each op-amp circuit below.

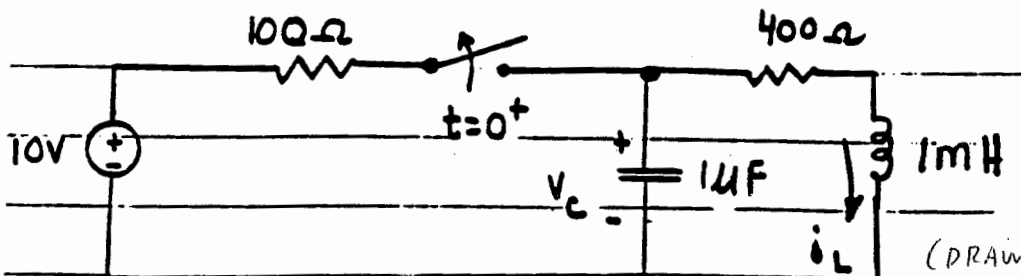


(HARDEST)



- (20) 3a. For $-\infty < t < 0$ the switch is closed. At $t = 0$ the switch is opened.
 For $0 < t < +\infty$ the switch is open. **Fill in the two tables below.**

- (10) 3b. When the switch is opened the 10V in series with 100Ω is connected to resistor R.
 What is the maximum power that can be dissipated in R? **Max. power =**



(DRAWN BY KIM WINICK)