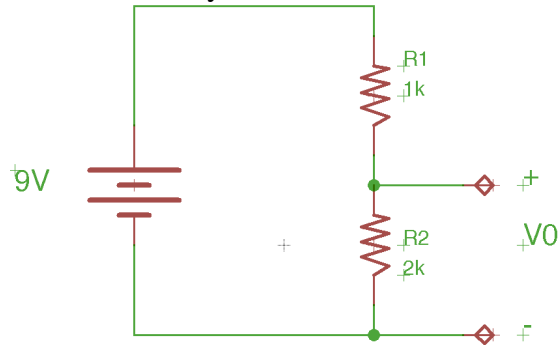
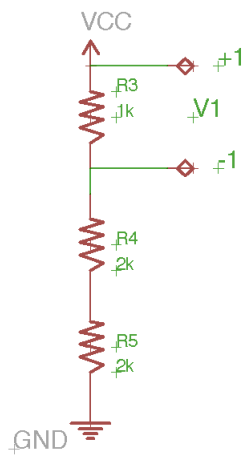


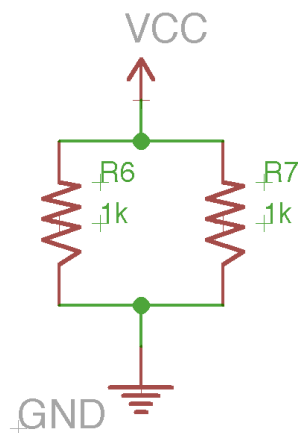
1. (1 pt.) Using Ohm's Law, find the value of V_0 . All resistances are in Ohms (Ω), be sure to include units in your answers! **Note: all k's are short for $k\Omega$ for rest of HW.**



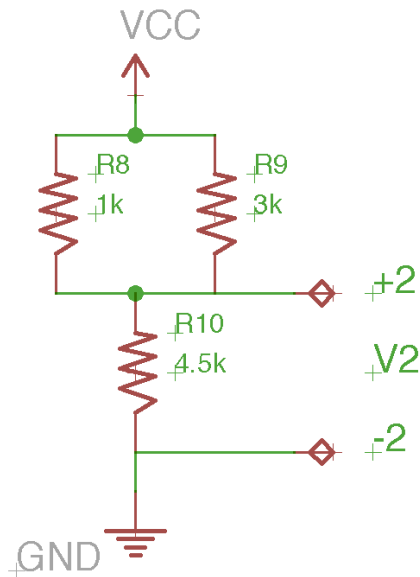
2. (2 pts.) Draw the equivalent circuit using only one resistor (R_{eq}), and find its value. Then find the value of V_1 . **Assume that $V_{CC} = 9v$ for the rest of the HW.**



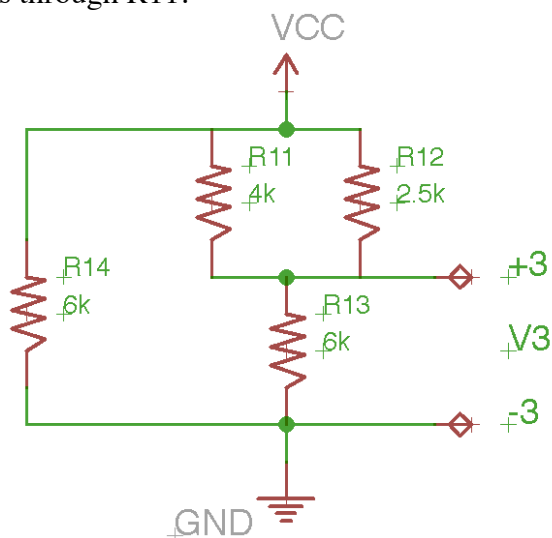
3. (2 pts.) Find the current that flows through each R_6 and R_7 . Then draw the equivalent one resistor circuit and label the value of R_{eq} .



4. (3 pts.) Find the value of V_2 , calculate R_{eq} for the entire circuit, find the current that flows through R_9 .



5. CQ (optional) (3 pts.) Find R_{eq} for the entire circuit, calculate V_3 , and find the current that flows through R_{11} .



6. (2 pts.) Find the value of V_4 . What would happen to V_4 if $R_{17} = 30\ \Omega$? $5\ \Omega$?

