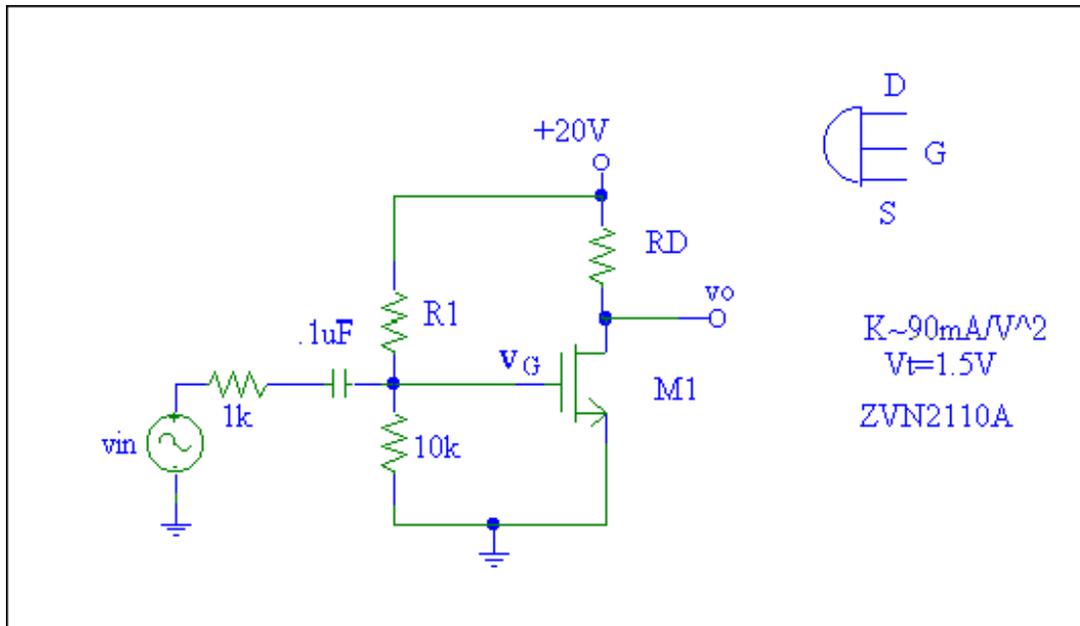


LAB 4 MOSFET FREQUENCY RESPONSE



1. Choose R_1 to set V_G above V_t , then choose R_D to set $V_D = +10\text{V}$.
2. Calculate and measure v_o/v_{in} and v_o/v_G .
3. Calculate and measure the frequencies: f_L (3dB cutoff at the low end) and f_H (3dB cutoff at the high end).
4. Assume $C_{gd} = C_{gs}$ and predict the capacitances using measured f_H , the measured gain, and the Miller effect (pp.613-617 of text).
5. Compare theoretical and experimental values for all parts.