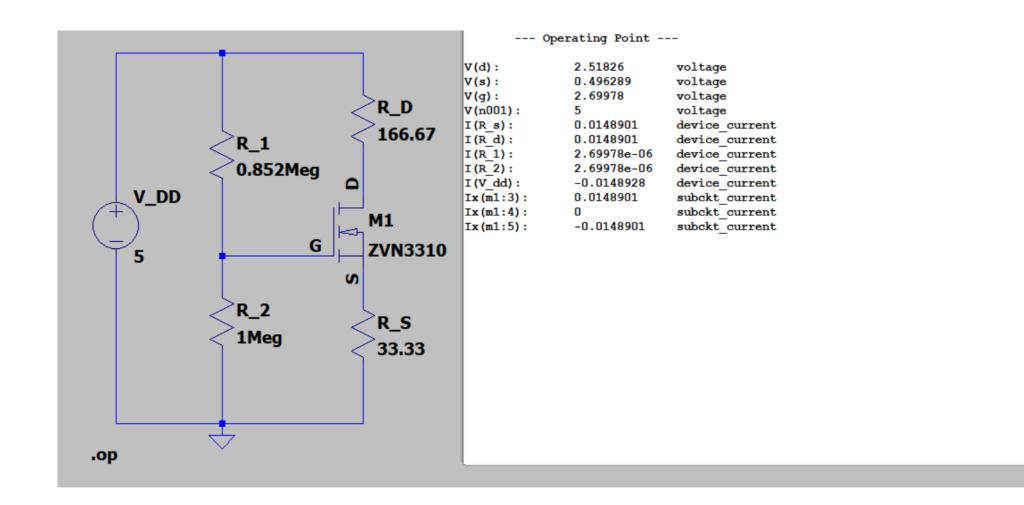
Exercise 12



Exercise 12

 V_S and V_D are mixed up in the initial LTSpice model, so these two values are wrong as well. The errors are left here, serving as a reminder.

LTSpice Simulation Results:

- $V_S = 2.52V$; $V_D = 0.50V$; $V_G = 2.70V$; $V_{DD} = 5.00V$
- $I_D = 14.9mA$, and the current floating through R_S , R_D , Source-to-Drain, are all the exact same. (Probably the LTSpice model is just configured to do this?)
- $I_{R1} = I_{R2} = 2.70 \mu A$
- No current between Gate and Drain
- Comments: From the values above (after the orange corrections): $V_{DS}=2.02V$, $V_{GS}=2.20V$, $I_{D}=14.9mA$. All these values match very well with the givens, especially considering I only kept four sig figs in the resistances in the simulation. (i.e., 33.330hms)