Special Problem 5.4-2

The gate voltage of this circuit is at -1.0 volt ($V_G = -1.0 \text{ V}$).

Note the MOSFET is a depletion type.

Find the value of resistor $R$.

\[ K = 0.25 \text{ mA/V}^2 \]

\[ V_T = -3.0 \text{ V} \]