Design the circuit of Fig. P5.44 to establish a drain current of 0.1 mA and a drain voltage of +0.3 V. The MOSFET has $V_i = 0.5$ V, $\mu_n C_{ox} = 400 \mu$A/V$^2$, $L = 0.4 \mu$m, and $W = 5 \mu$m. Specify the required values for $R_s$ and $R_D$.

**Figure P5.44**