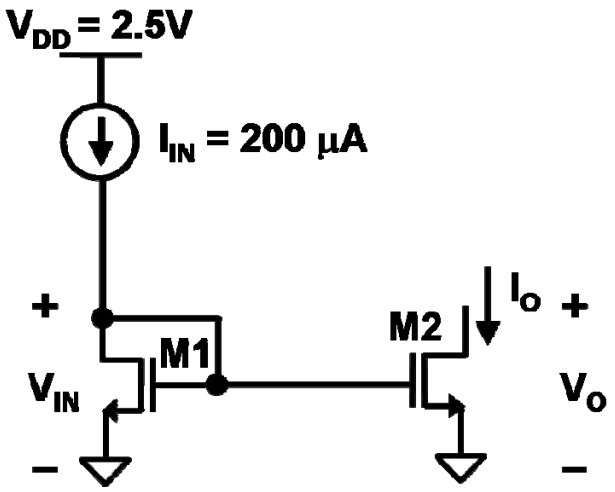
Quiz #2 **EEC210** **Fall 2008**

Name:_____
Lab Section:_____

Problem 1 (10 points) For the following current source, solve for the listed parameters given: $W_1 = 0.2\ \mu m$, $W_2 = 0.8\ \mu m$, $L_1 = L_2 = 0.1\ \mu m$, $V_{T,n} = 0.8\ V$, $\mu_n C_{ox} = 400\ \mu A/V^2$, $\lambda = 0.01\ V^{-1}$, $\gamma = 0$. Show all work to receive full credit and clearly state any simplifying assumptions you make.



V_{IN} =

I_O (at V_O = 2.0 V) =

$V_{O,\,MIN}$ =

Systematic Gain Error (at $V_O = V_{O,\,MIN}$) =