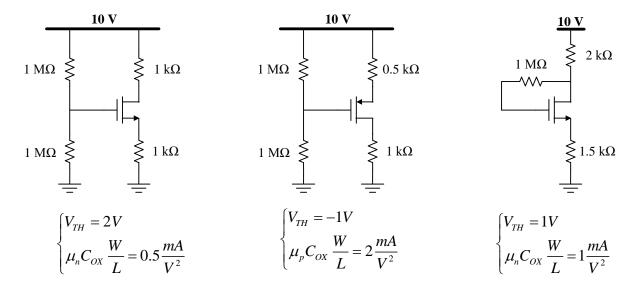
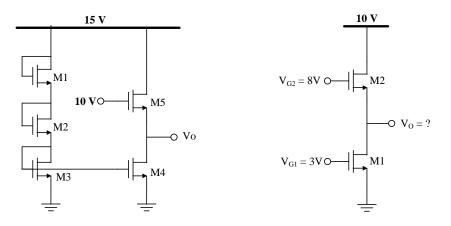
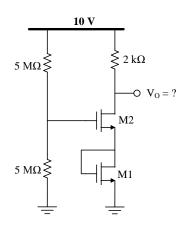
1- In the following circuits, determine the bias points of the transistors.



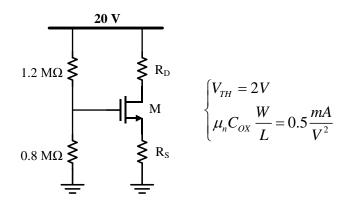
2- In the circuits shown below, all of the transistors are the same and operate in the saturation region. Calculate the output voltage.



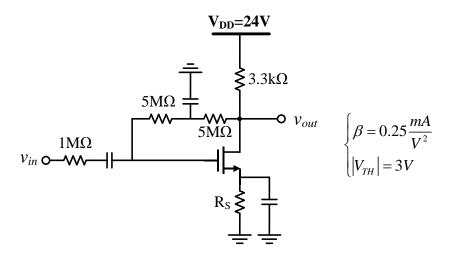
3- In the following circuit, the transistors are the same and operate in saturation. Calculate the output voltage. Assume $\beta = 0.5 \, mA/V^2$, $V_{TH} = 0.5 V$.



4- Specify R_D and R_S so that the transistor operates in saturation and $I_D=1$ mA.



5- Specify the source resistance such that the bias point current will be equal to 2.5 mA.



6- Determine the requested parameters. Assume that the transistors are in saturation.

