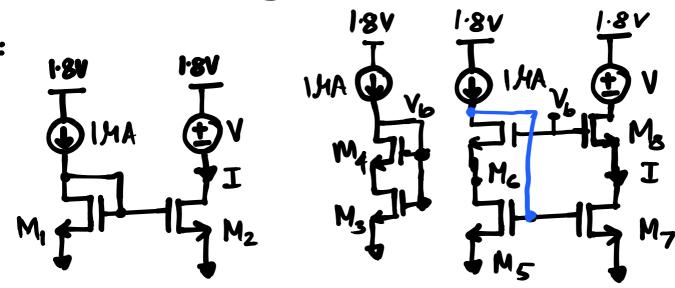
Assignment 2



In the above circuits all transistor except M₃ are identicle M₃ has Wz 0:24 h and L=5 h. For all other transistors choose W=2 h & L=0:18 h

- @ Plot I as V is varied from 0 to 1.8V
- 6 Now charge L of device M1,2,4,5,6,7,8 to 14 from 0.184 and redo the poort (a)

(3 Marks)

- Design a common source amplifier with De Gain = 30dB and UGB = 50MHz. Minimize the power dissipation. Report all operating points. Show its Ac magnitude & phase response.

 (4 Marks)
 - Q.3 Perform noise simulation of your designed amplifier and calculate its input referred voltage squared noise voltage in IMHz BW. Compare it with analytical expression discussed in the class.