Homework Assignment No. 11

Due on Wednesday, April 7, 2004

1.) Problem P7.15 of the text

  [Ans: a.) $V_x = V_{DD}\text{-}V_T$].

2.) Problem P8.4 of the text.

  [Ans. $W_1 = W_2 = 0.4\mu m$ and $W_3 = W_4 = W_5 = W_6 = 0.75\mu m$ (I think, the answers are not obvious from the solutions)]

3.) Problem P.8.7 of the text.

4.) Problem P8.8 of the text.

  [Ans: (a) $I_{SS} = 90\mu A$ (b) $W/L = 2$, (d) $W/L = 1.7$ and (d) $W/L = 0.8$]