Problem

Kathryn Chamberlin 1208871114 HW 2 EEE 591 444

b)
$$kn = M Cox = 1$$

 $kn = M Cov \frac{W}{L} = 560 \times 10^{-4} \cdot 3.835 \times 10^{-5} \cdot \frac{9 \times 10^{-6}}{0.23 \times 10^{-6}}$
 $= 0.1718 m/A/V^2$

(1)

$$V_{GS}-V_{tn}=2.5-6.6$$

$$=1.9$$

$$V_{OS}=1.2S<1.9=125 \text{ folde}$$

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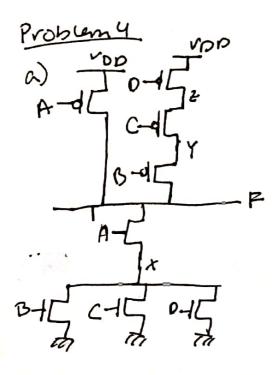
$$=1.760.69.29$$

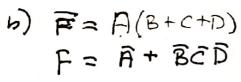
$$=1.760.69.29$$

$$=1.760.69$$

Problem 2

A)
$$V_{m} = V_{tn} + V (V_{DD} - |V_{tp}|)$$
 $V_{tr} = 0.6 + 0.934 (2.5 - |0.6|)$
 $V_{tr} = 0.934$
 $V_{tr} = 0.$





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