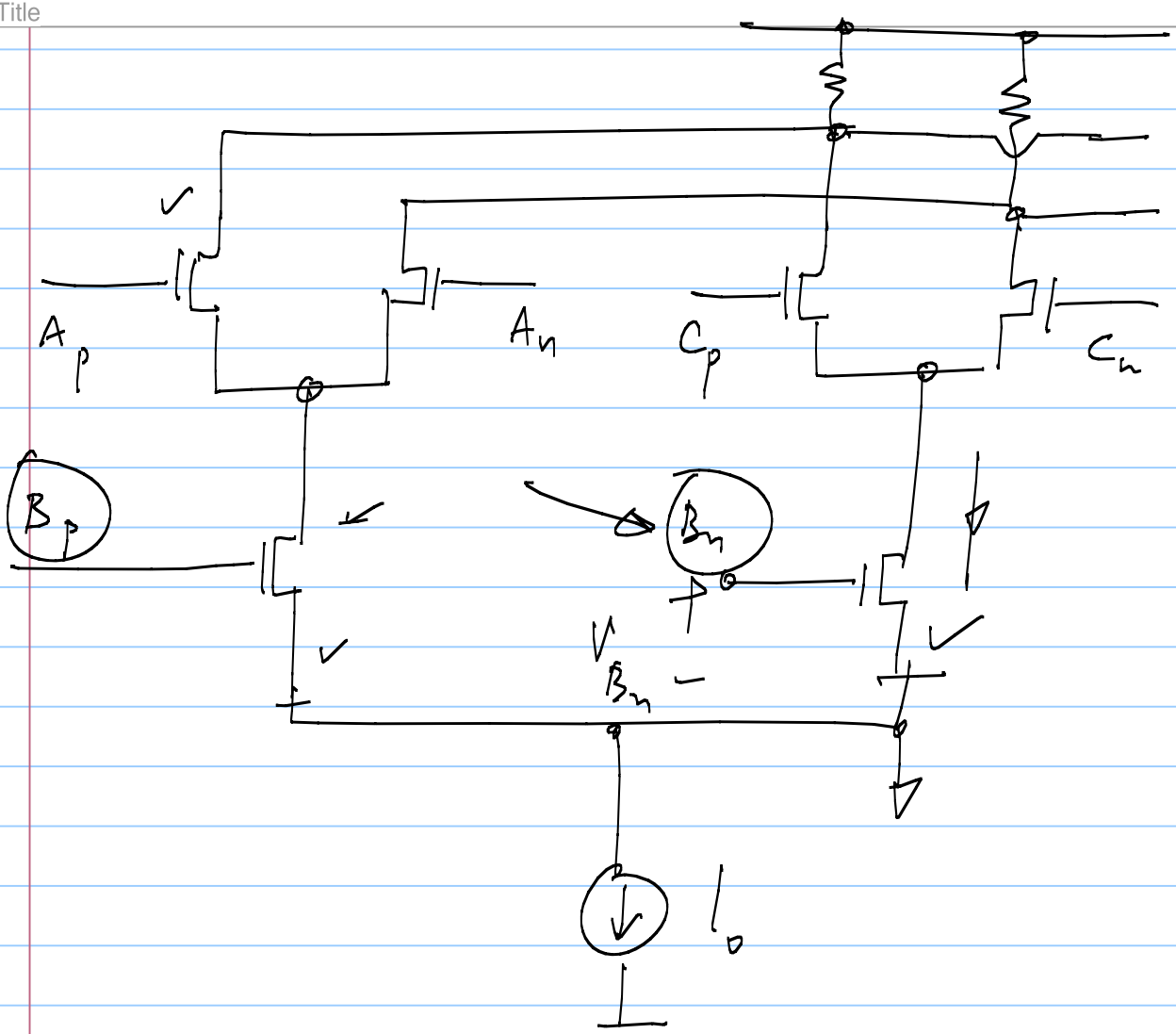
Current mode logic

Note Title 10-08-2007

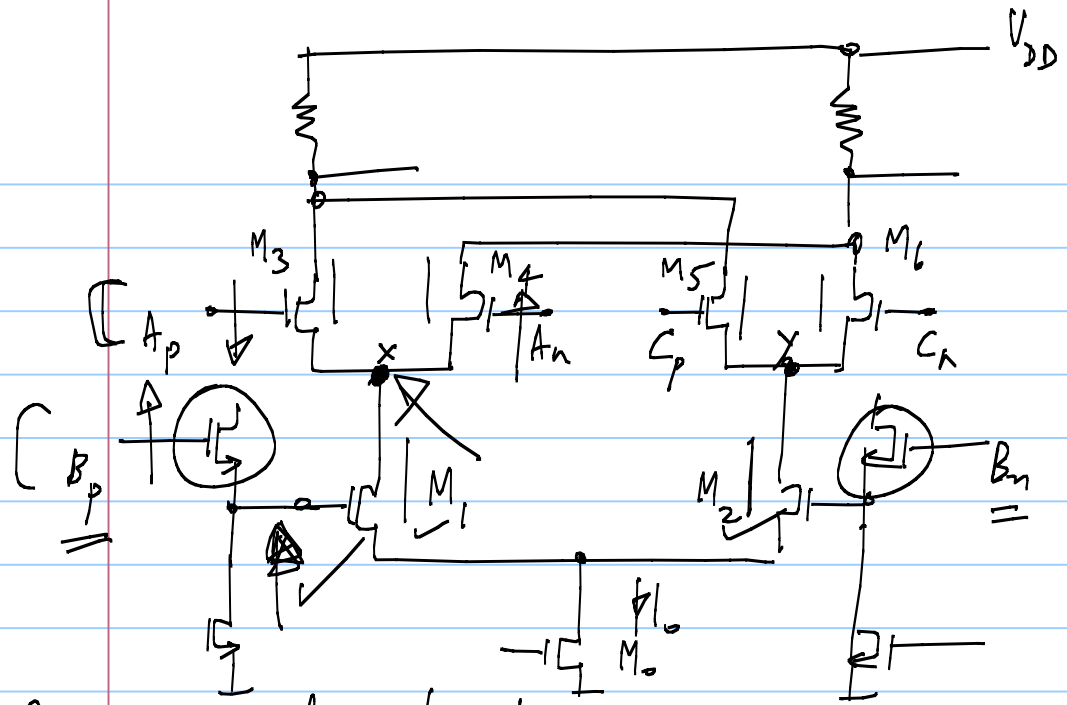


$Y = A \cdot B + C \cdot B$

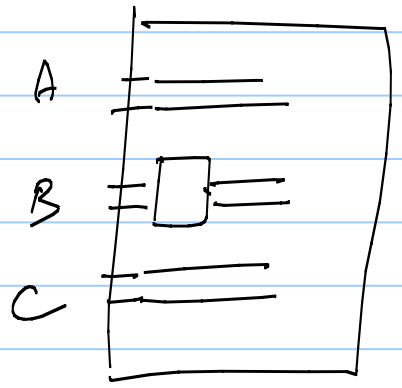
$V_{0cm} = V_{DD} - \frac{I_0 R}{2}$

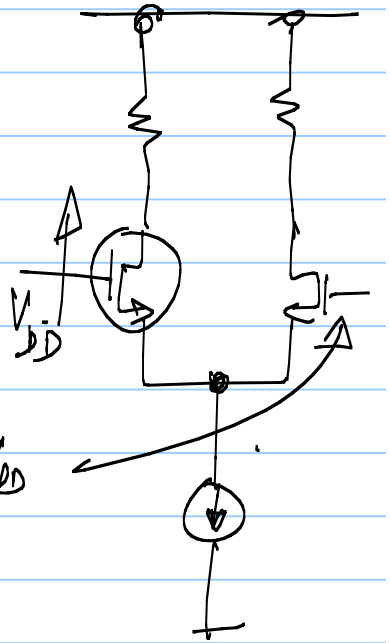
$V_T + \sqrt{\frac{2 I_0}{\mu C_{ox} W/L}}$

"0"



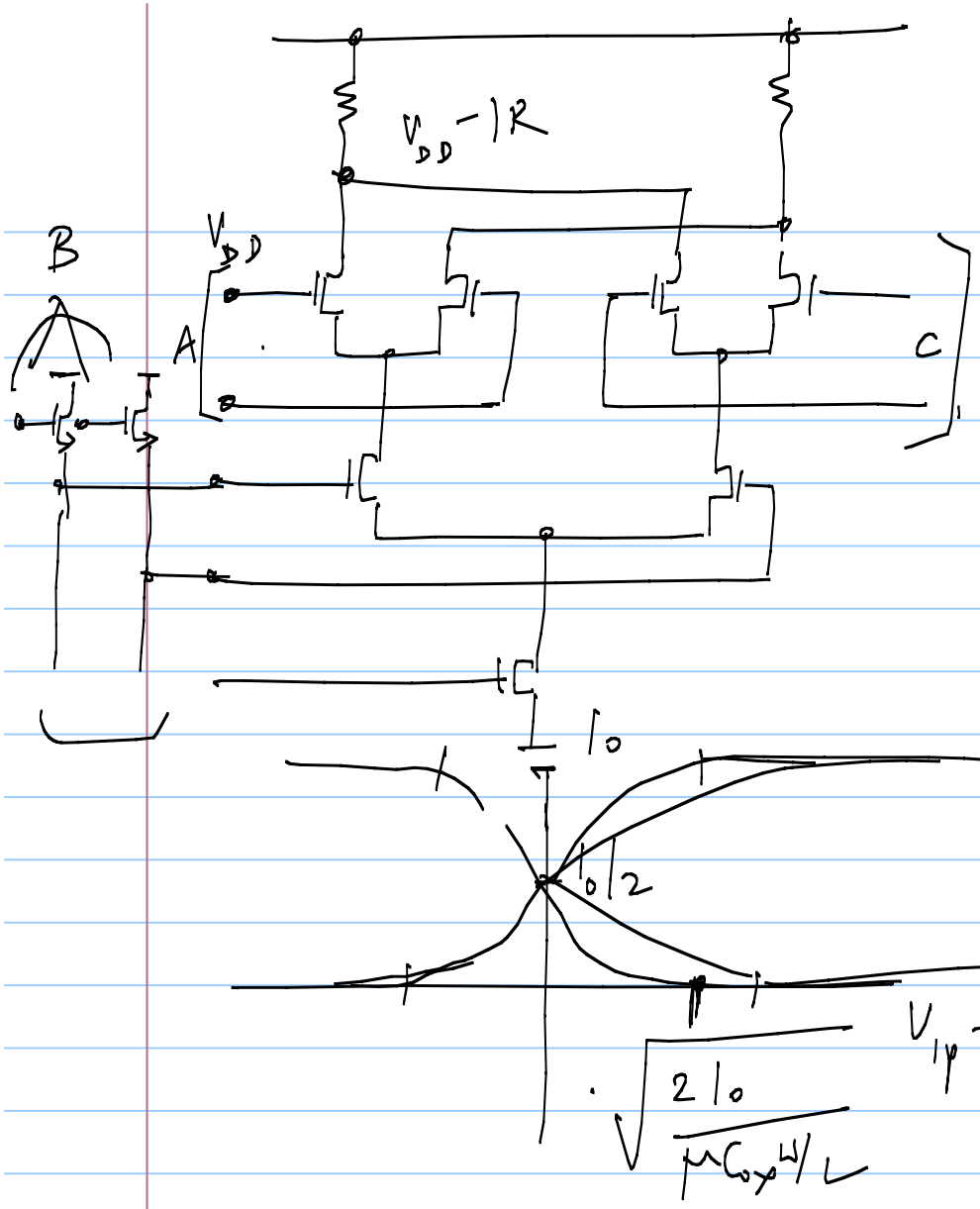
$V_{DD} - I_0 R_D - V_{DSAT,M_4} + V_{T,M_1}$





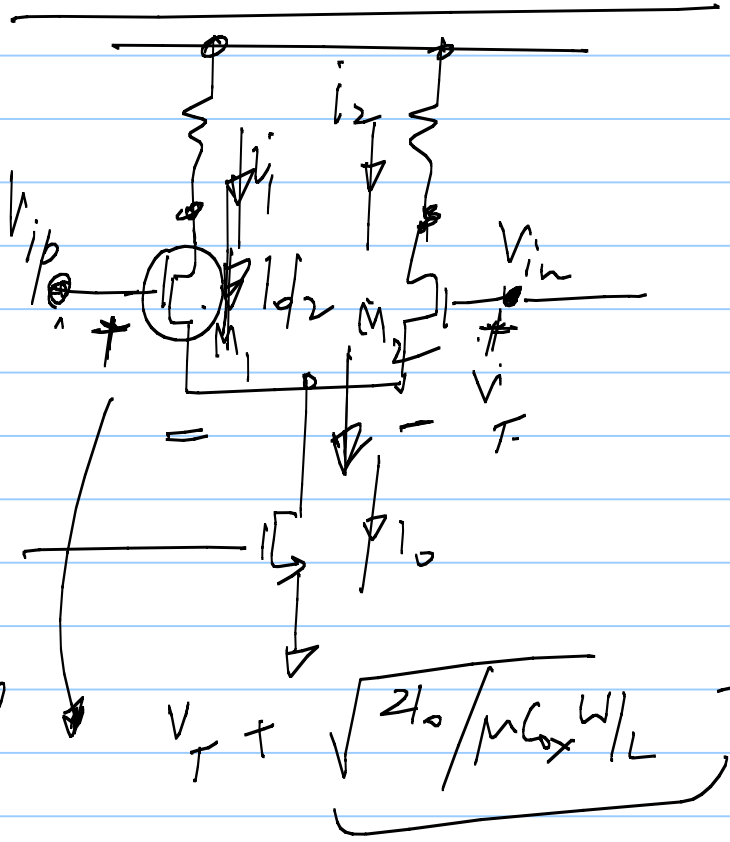
Common mode limits

$V_{B,cm}: V_{T_1} + V_{DSAT_1} + V_{DSAT_0} < V_{B,cm} < V_{A,cm} = V_{DSAT_3} - V_{T_3} + V_{T_4}$



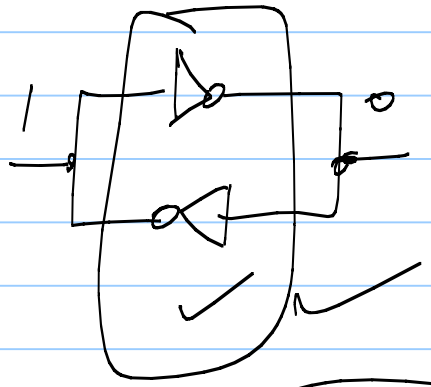
$IR < V_T$

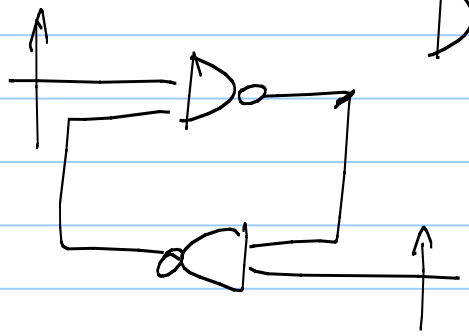
$Y = A \cdot B + C \cdot \bar{B}$

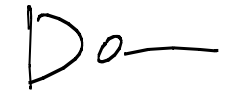


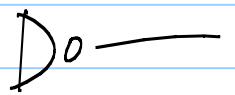
$$Y = A \cdot B + C \cdot \overline{B}$$

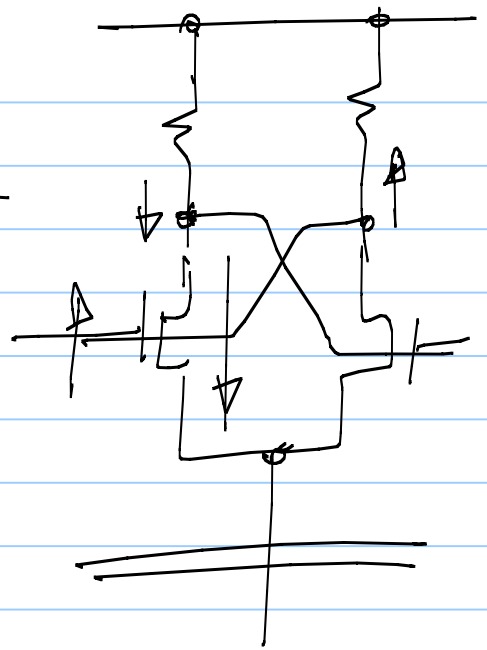
$$C = \overline{A}$$

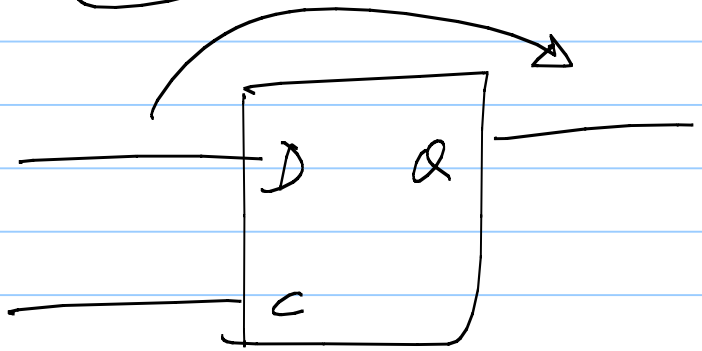












Latch