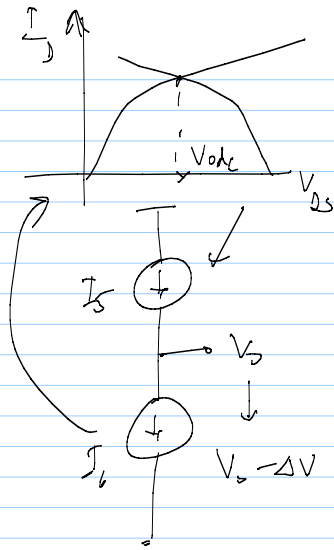
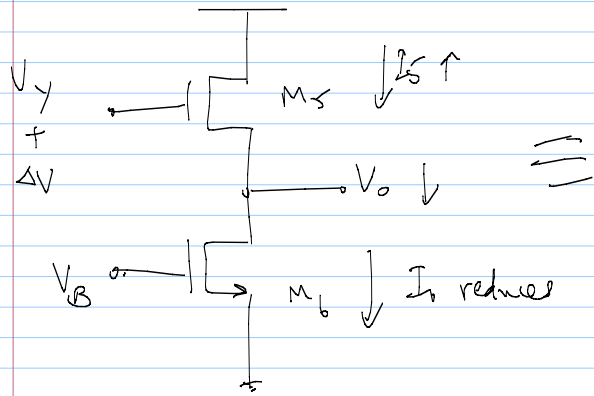
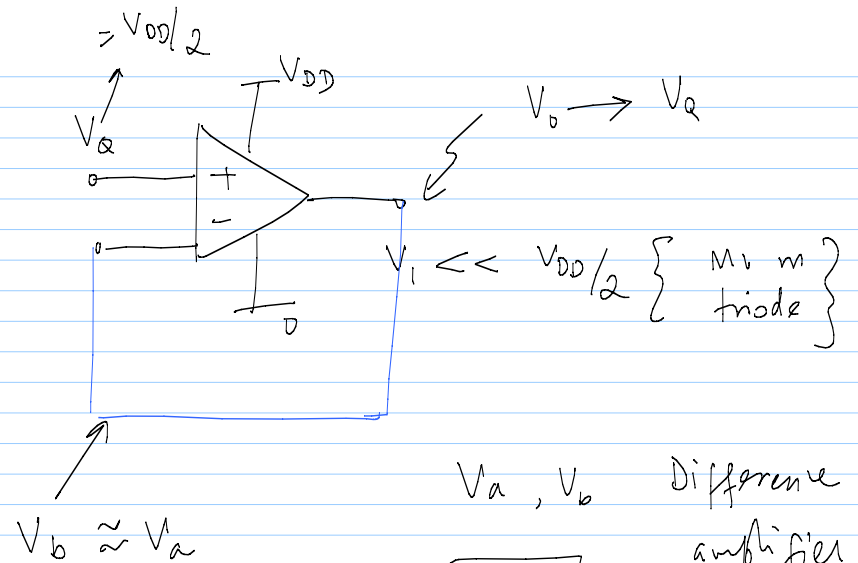


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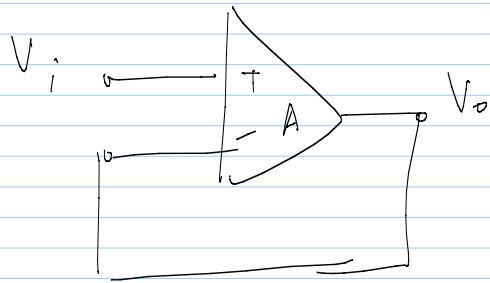
lec 41



$I_5 = I_6$ $V_y \rightarrow V_y + \Delta V$ } I_5 stays the same
 $I_5 \rightarrow I_5 - \Delta I$ }



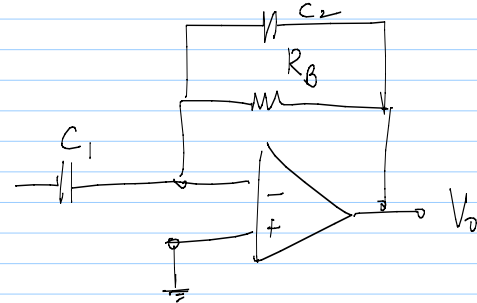
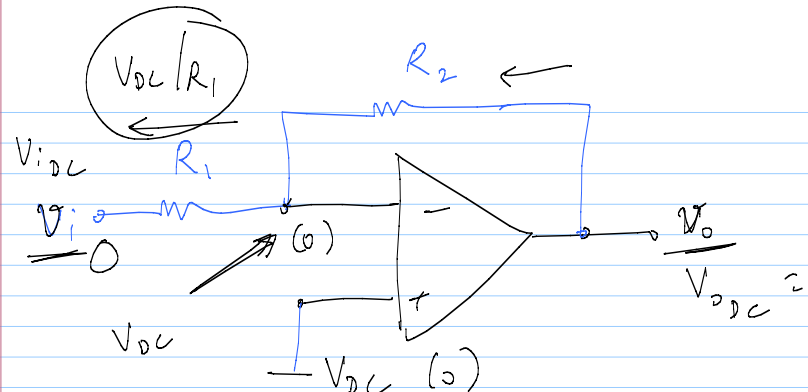
V_a, V_b Difference amplifier
 $2(V_a - V_b)$

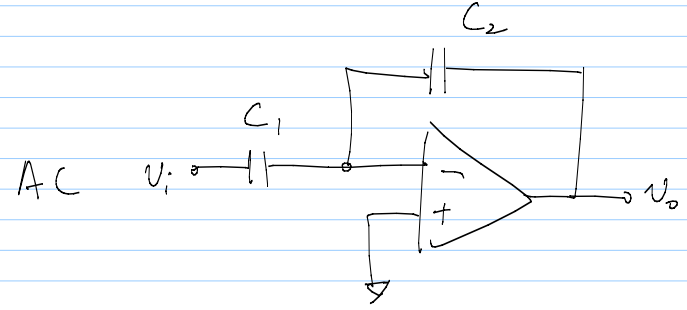
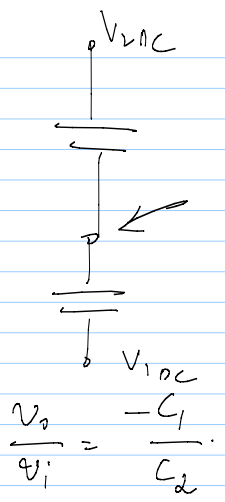
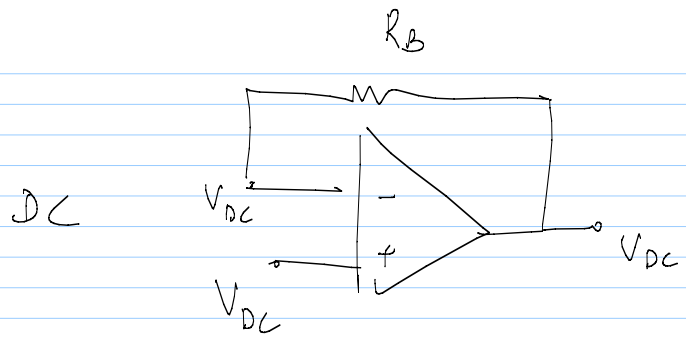


V_i has to be within limits

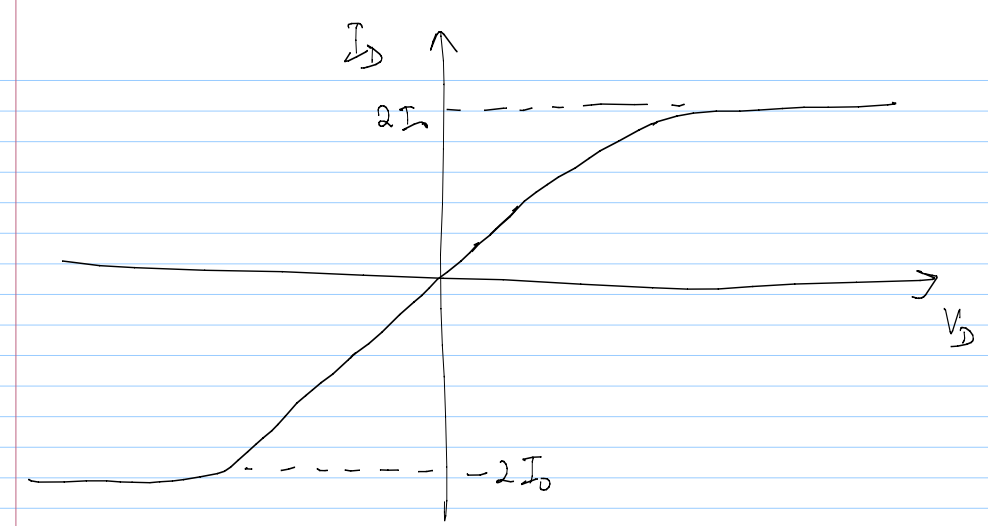
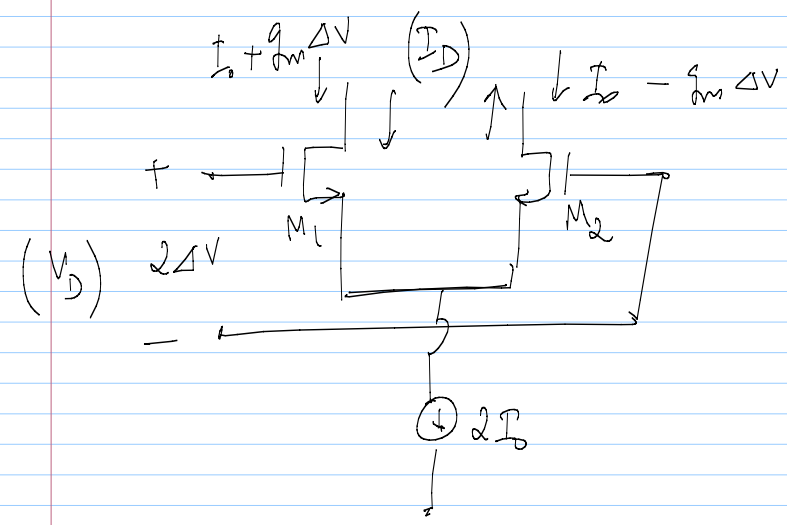
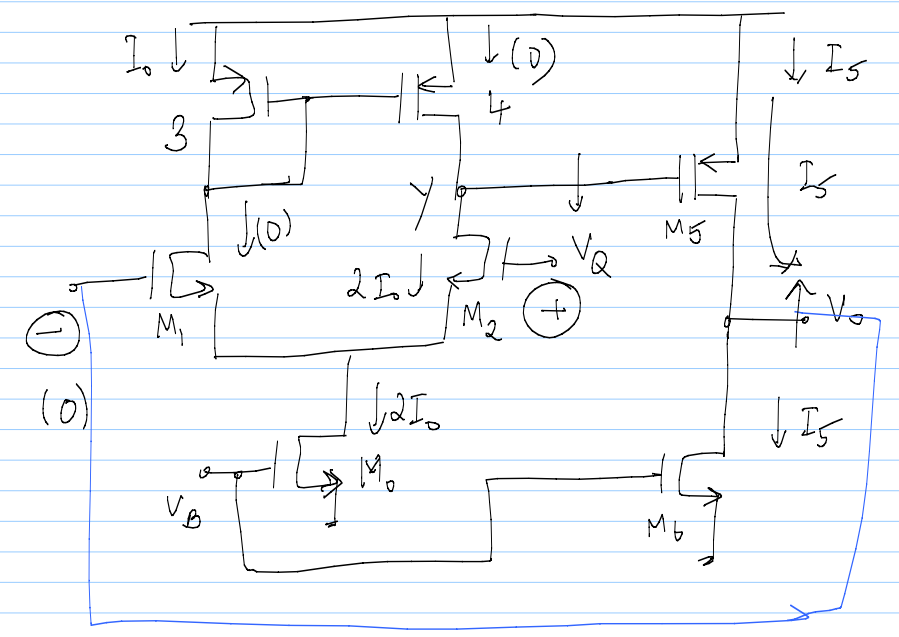
$$V_o = A(V_i - V_b)$$

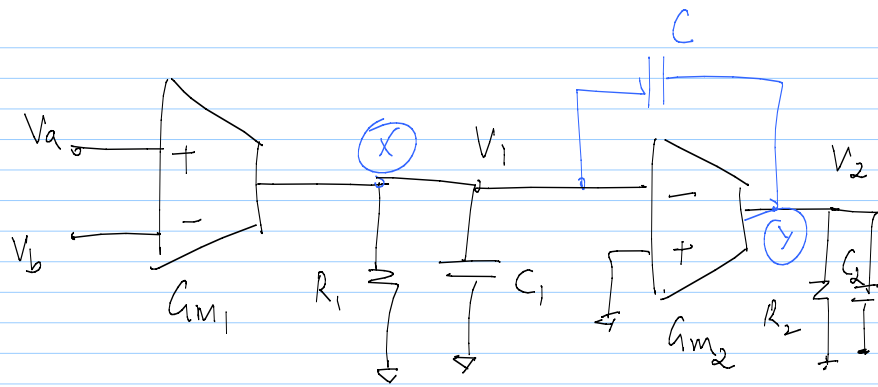
$$V_o = \left(\frac{A}{A+1} \right) V_i$$





$$\frac{v_o}{v_i} = \frac{-C_1}{C_2}$$





$$C_{eff} @ X = C \times g_{m2} R_2$$