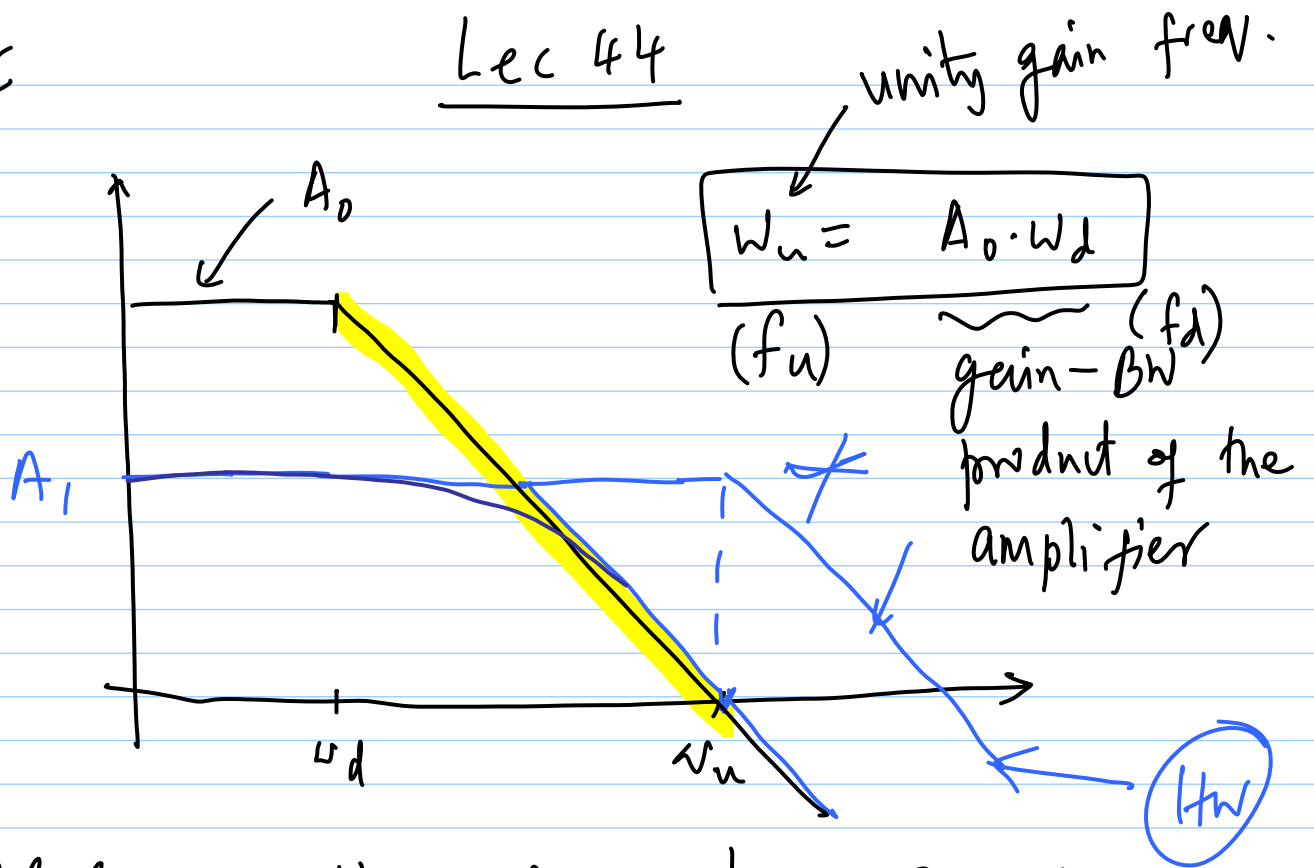
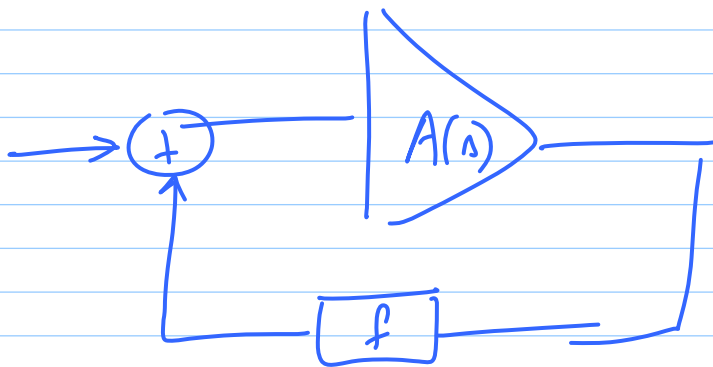


10-11-12

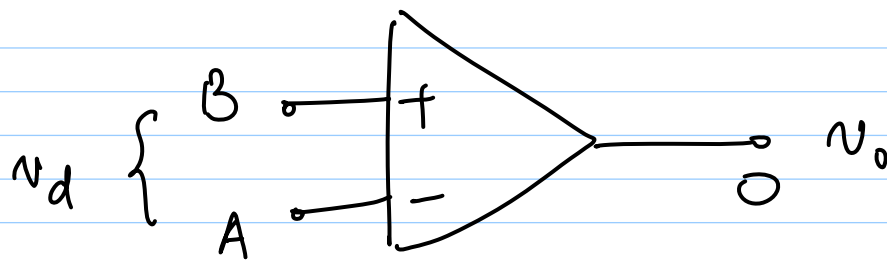
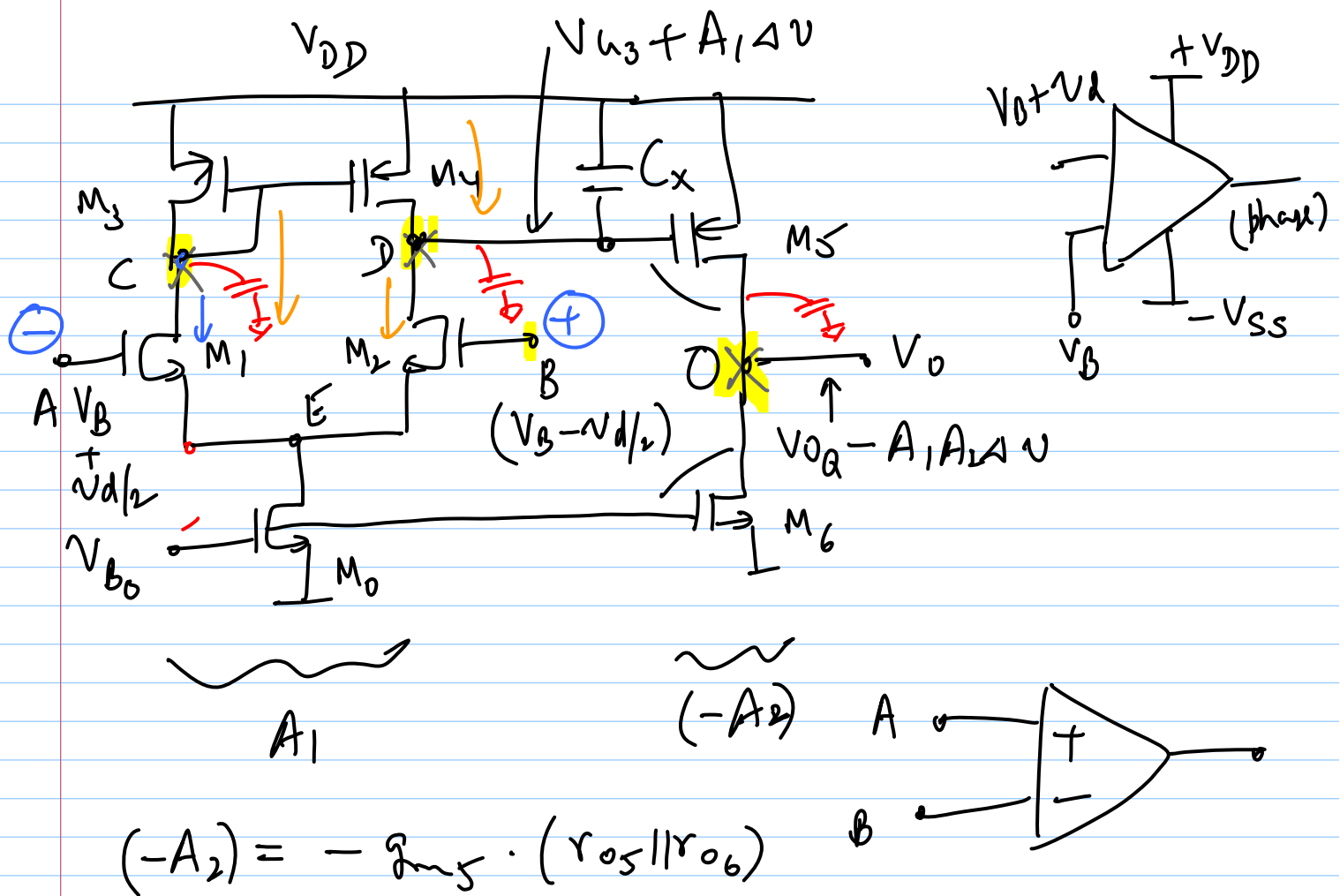
Lec 44



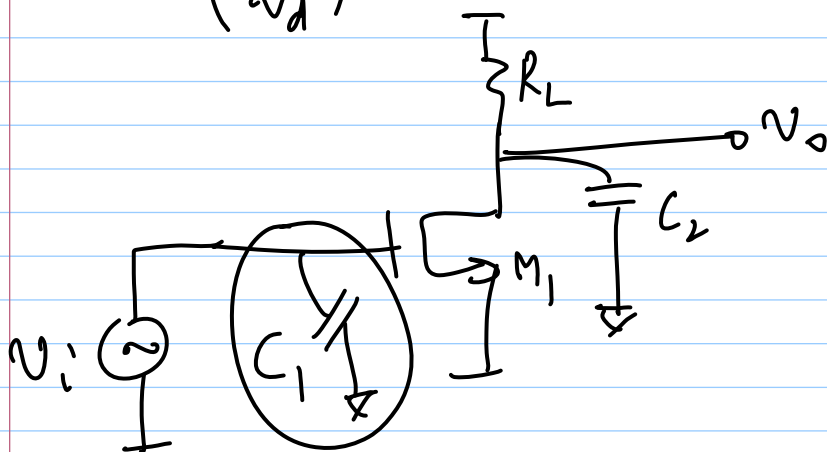
$$\underline{GBW} = 1 \text{ MHz}, A_o = 10^6 \Rightarrow f_d = 1 \text{ Hz}$$

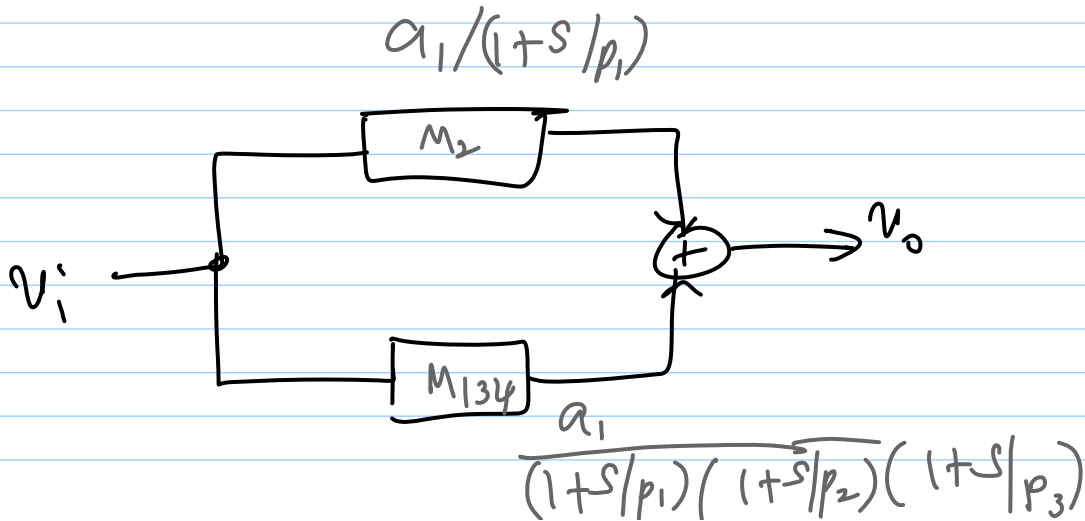
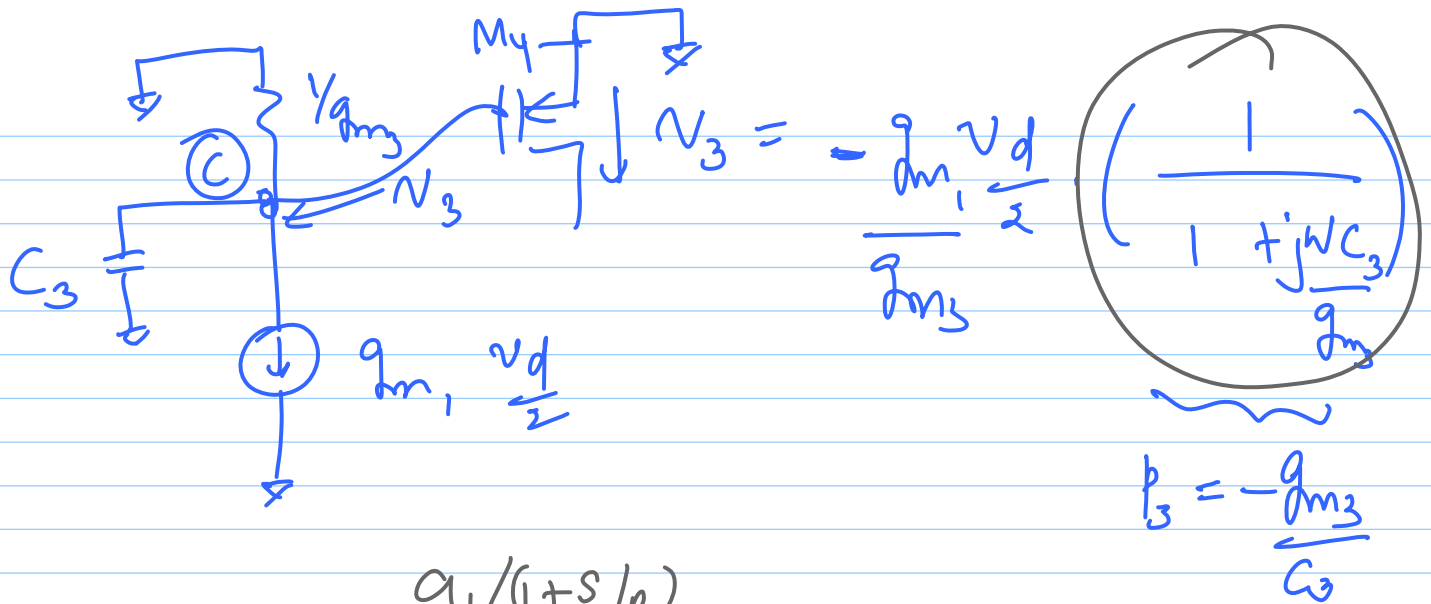


$$CLL = \frac{1}{f} \frac{Af}{1+Af}$$



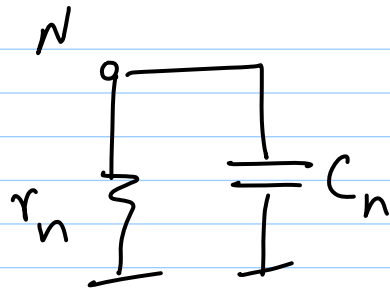
$$\left(\frac{v_o}{v_d} \right) (s) = A(s)$$





$$A(s) = \left(\frac{a_1}{1+s/p_1} \right) \left[1 + \frac{1}{1+s/p_2} \right]$$

$$= \frac{a_1 (2 + s/p_2)}{(1+s/p_1)(1+s/p_2)}$$

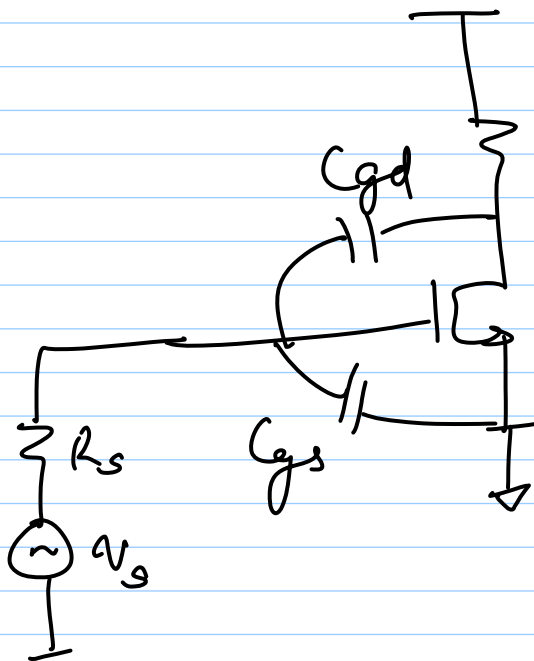
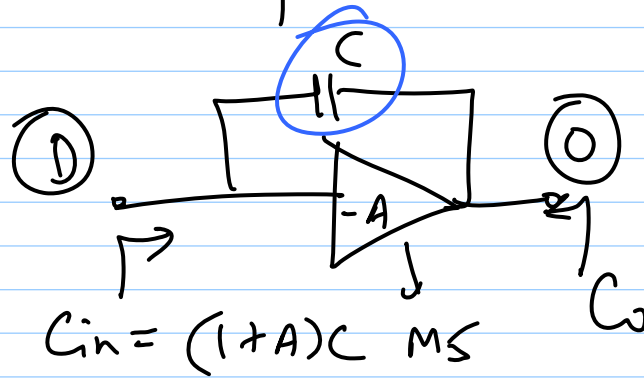
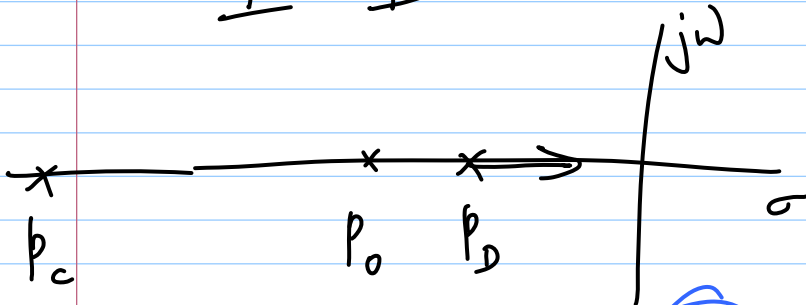


$$|p_n| =$$

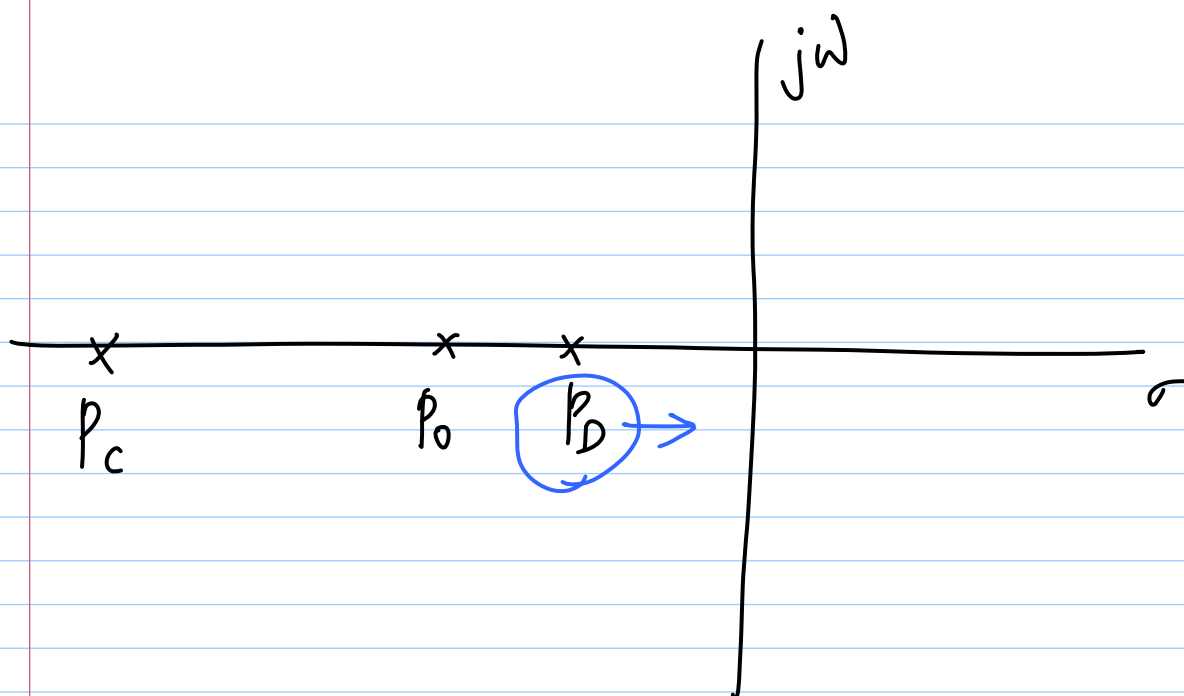
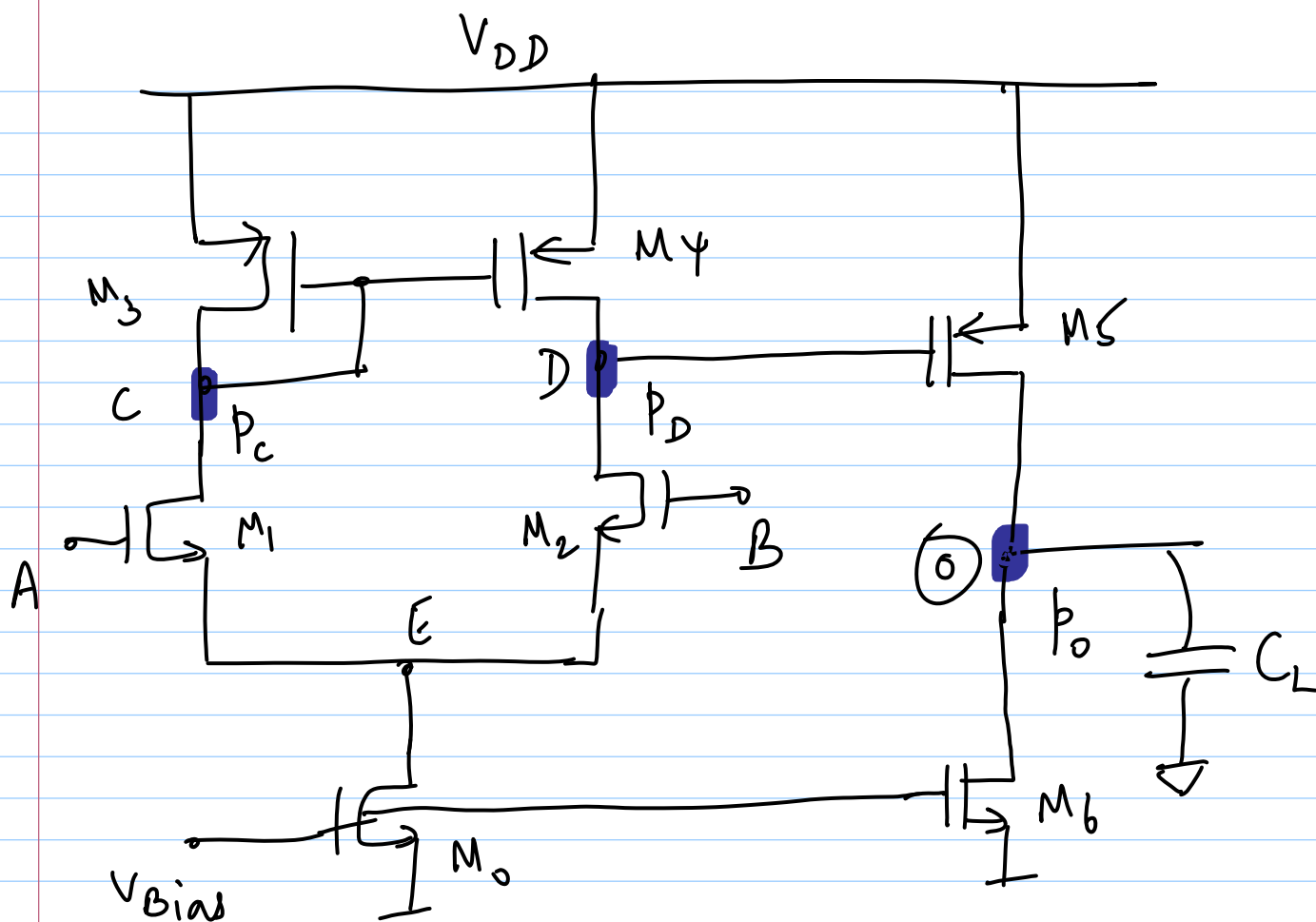
$$\frac{+1}{r_n C_n}$$

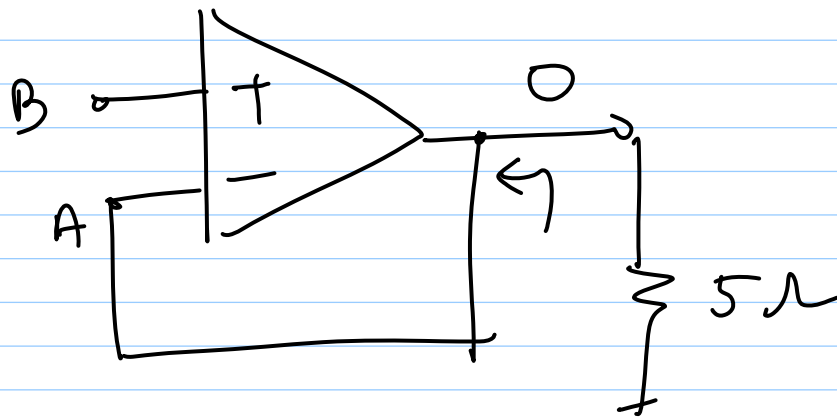
$$r_o \gg \frac{1}{g_m}$$

$$C_{gs} > C_{gd}, C_{db}$$



$$p_1 = \frac{-1}{R_s (C_{gs} + g_m R_L C_{gd})}$$





$$r_o = r_{o5} \parallel r_{o6}$$

