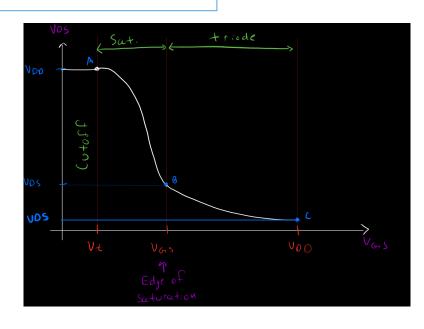
$$V_L = V_t$$
 $V_0 = V_{DD}$
 $I_0 = 0$

$$V_{GS} = V + \sqrt{\frac{1 + 2((\Omega_0)(k'n)(\omega/L)(voo)^{7} - 1}{(\Omega_0)(k'n)(\omega/L)}}$$

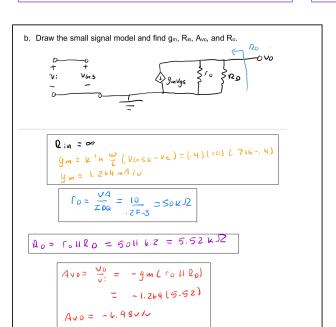
see module 6 notes?



$$A_{VO} = \frac{v_0}{v_1} = -g_m R_0 = -(k'n \frac{\omega}{L}(V_{LO} - v_{tl})) R_0$$

$$I_{00} = \frac{1}{2} k' n \frac{\omega}{L} (V_{GSQ} - V_{\pm})^2 \qquad g_{m} = k' n \frac{\omega}{L} (V_{GSQ} - V_{\pm})$$

$$g m = k \ln \frac{\omega}{L} (V_{G} sa - ve)$$



$$R_0 = \frac{1}{gm}$$

$$G_{1V} = \frac{RL}{R_L + 1/gm}$$

$$\frac{1}{\Omega_t} = \frac{1}{R_L} + \frac{1}{R_Z} + \frac{1}{R_Z}$$

$$\frac{1}{R_D}$$

