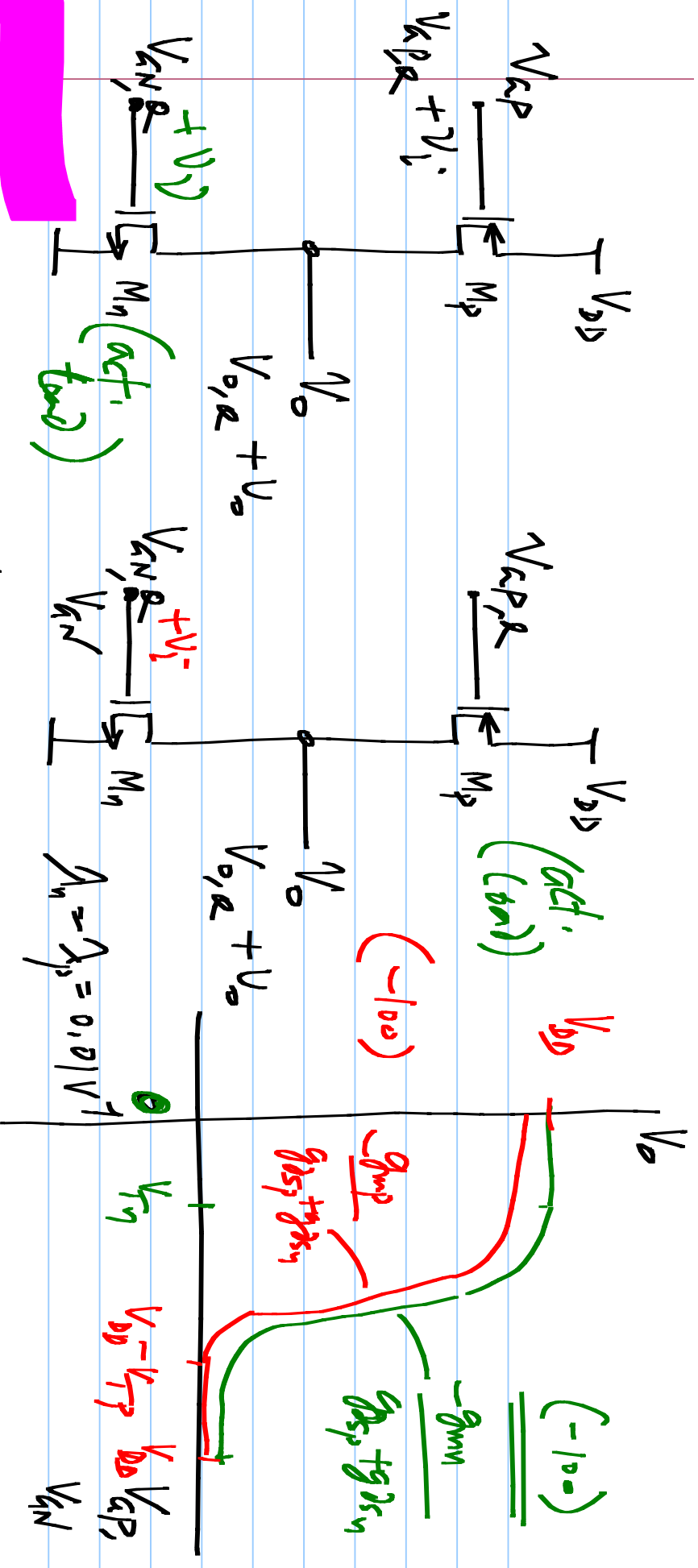
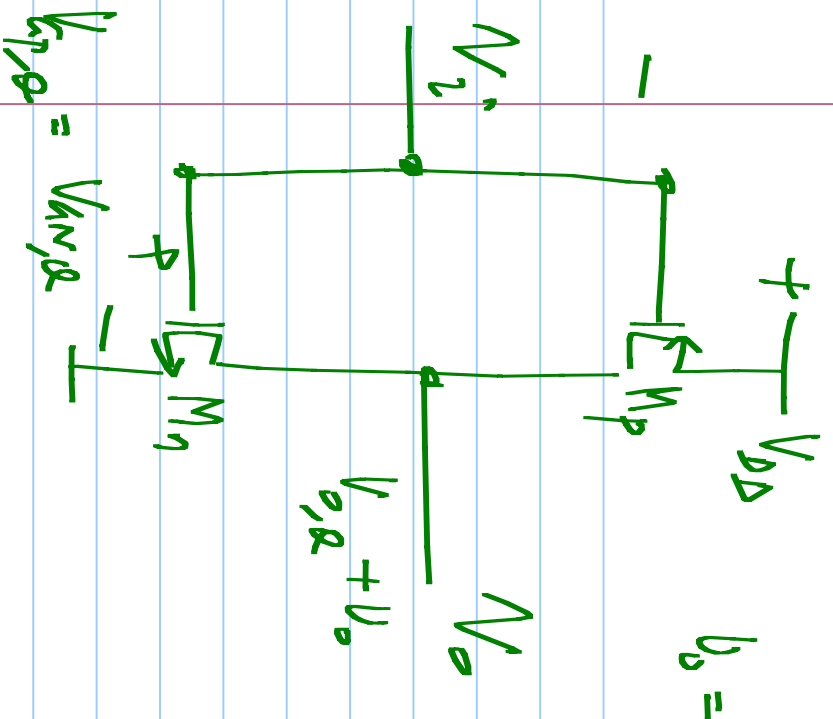




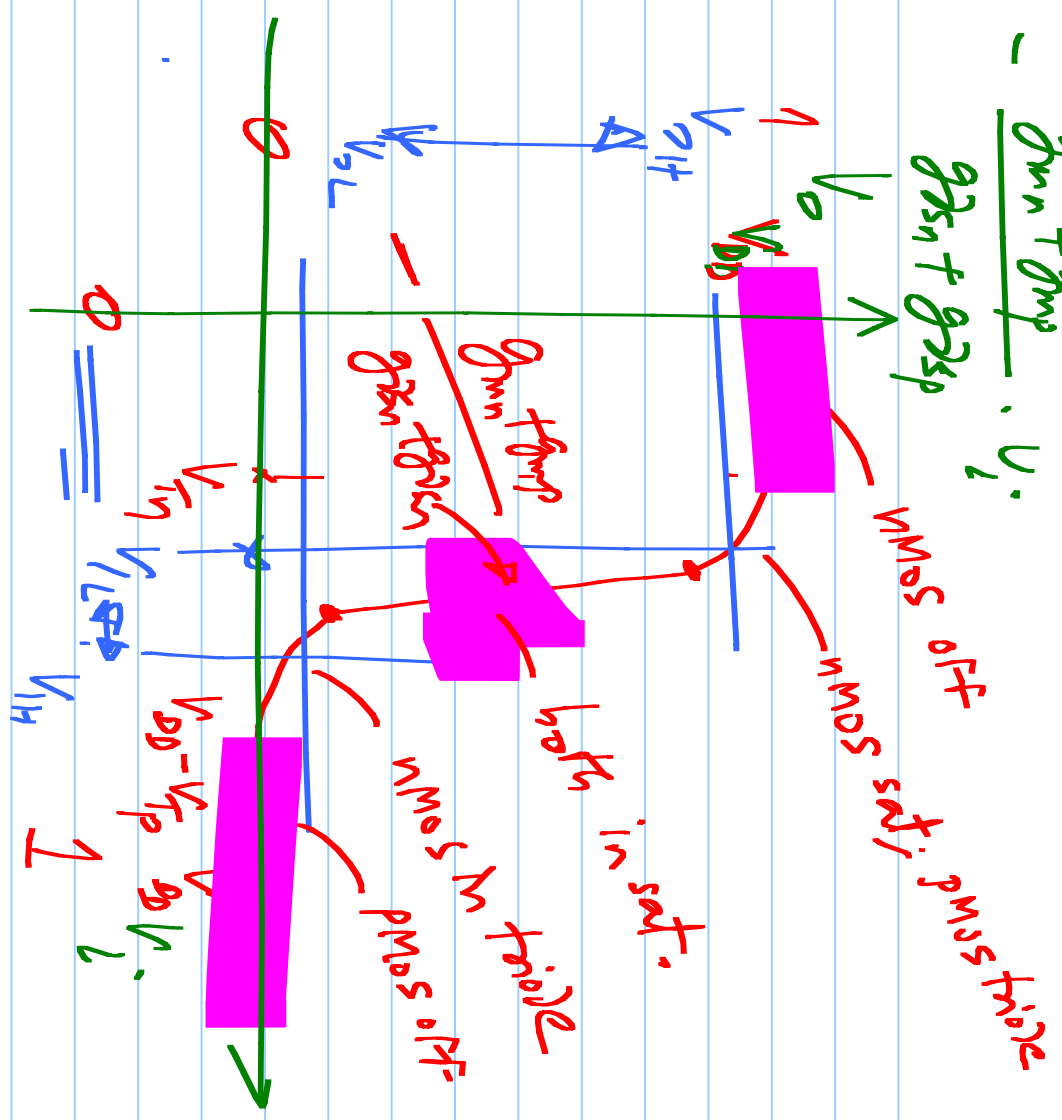
$$\mu_n C_{ox} = 100 \mu A/V^2 ; \quad \mu_n / L_n = 1 ; \quad V_{th} = 1V ; \quad V_{DD} = 5V ; \quad V_{in,R} = 2V$$

$$\mu_p C_{ox} = 25 \mu A/V^2 ; \quad \mu_p / L_p = 4 ; \quad V_{th} = 1V ; \quad V_{in,R} = 3V$$

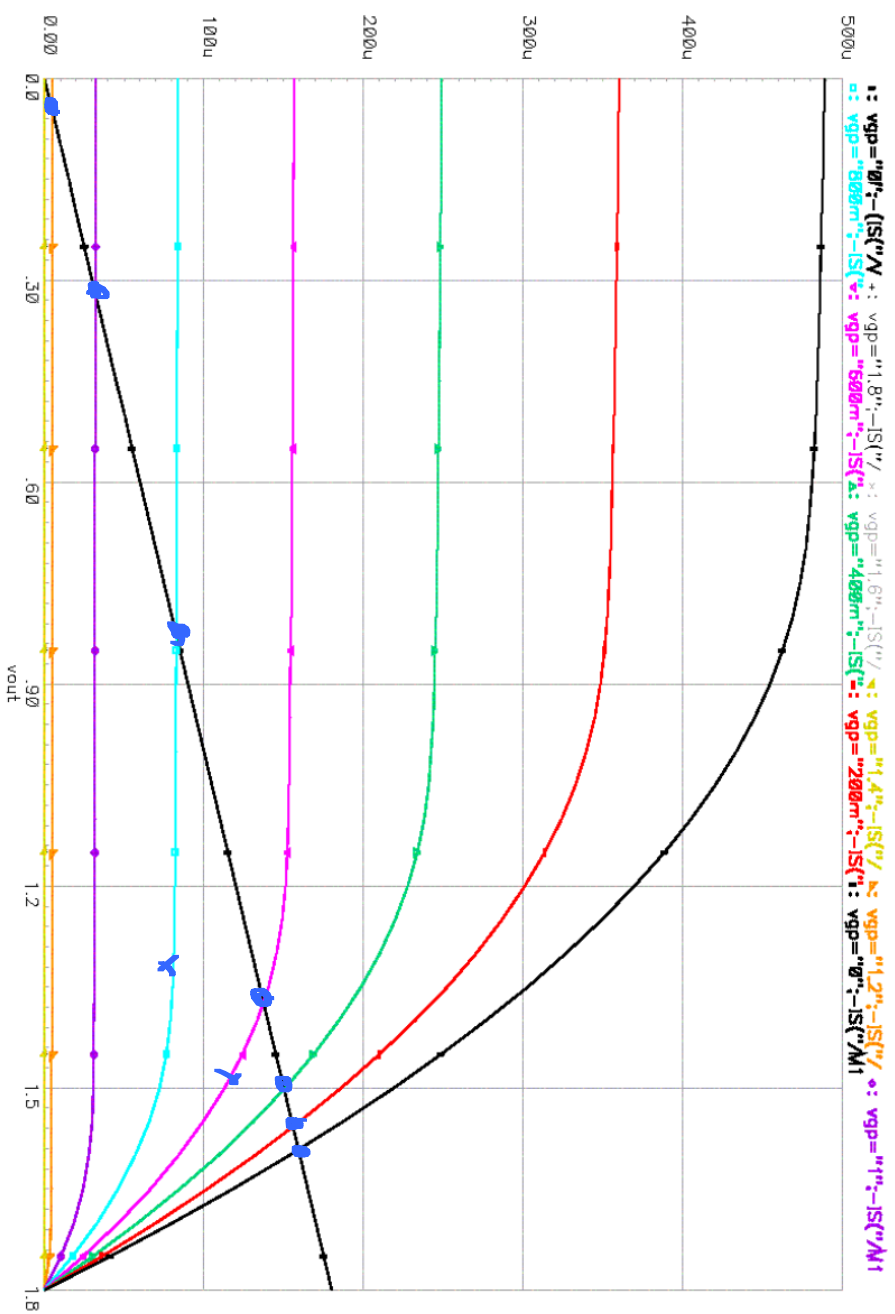
$$g_{m1} = g_{m2} = 100 \mu S ; \quad g_{m2} = g_{m1} = 0.5 \mu S$$



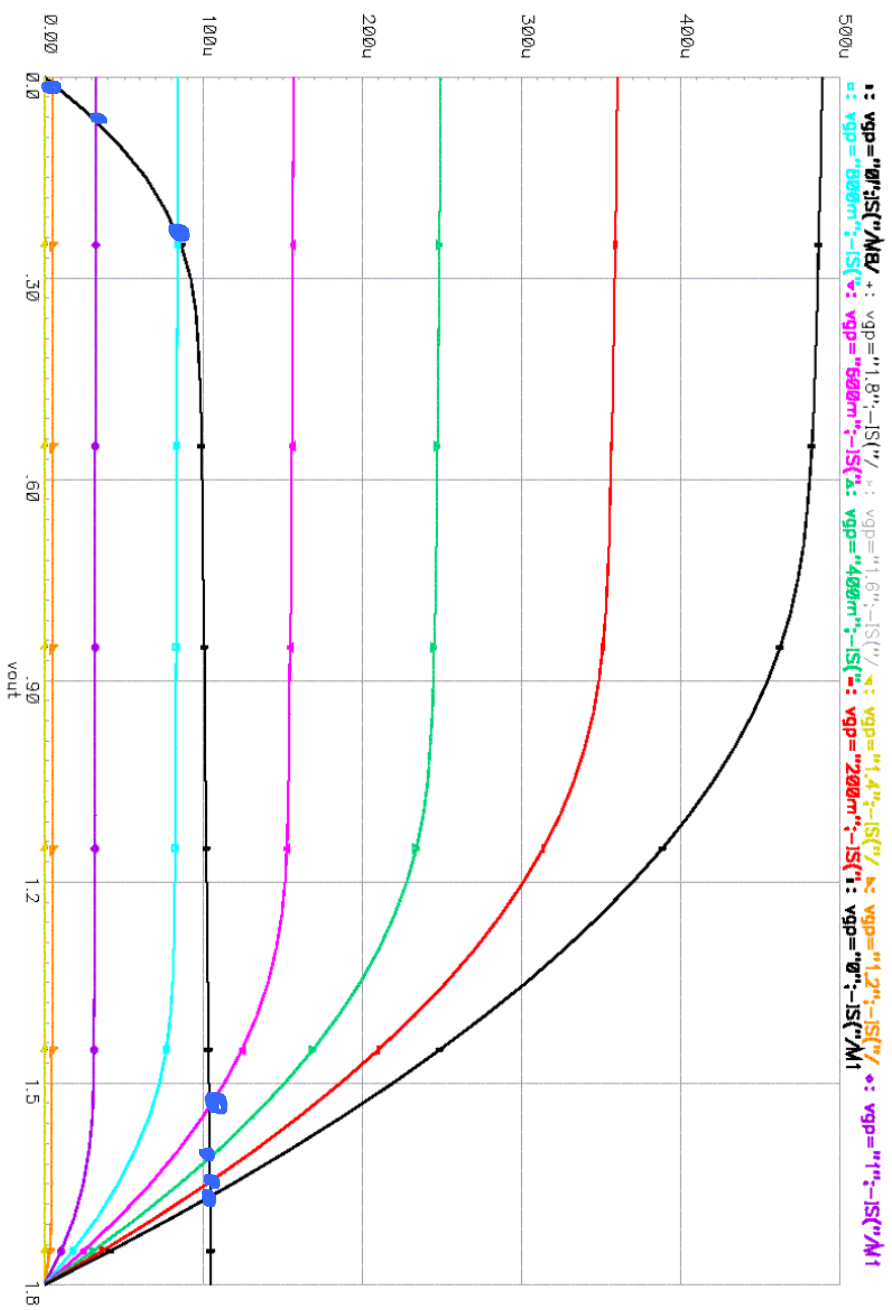
$$b_o = - \frac{g_{m,n} + g_{m,p}}{g_{s,n} + g_{s,p}} \cdot V_i$$

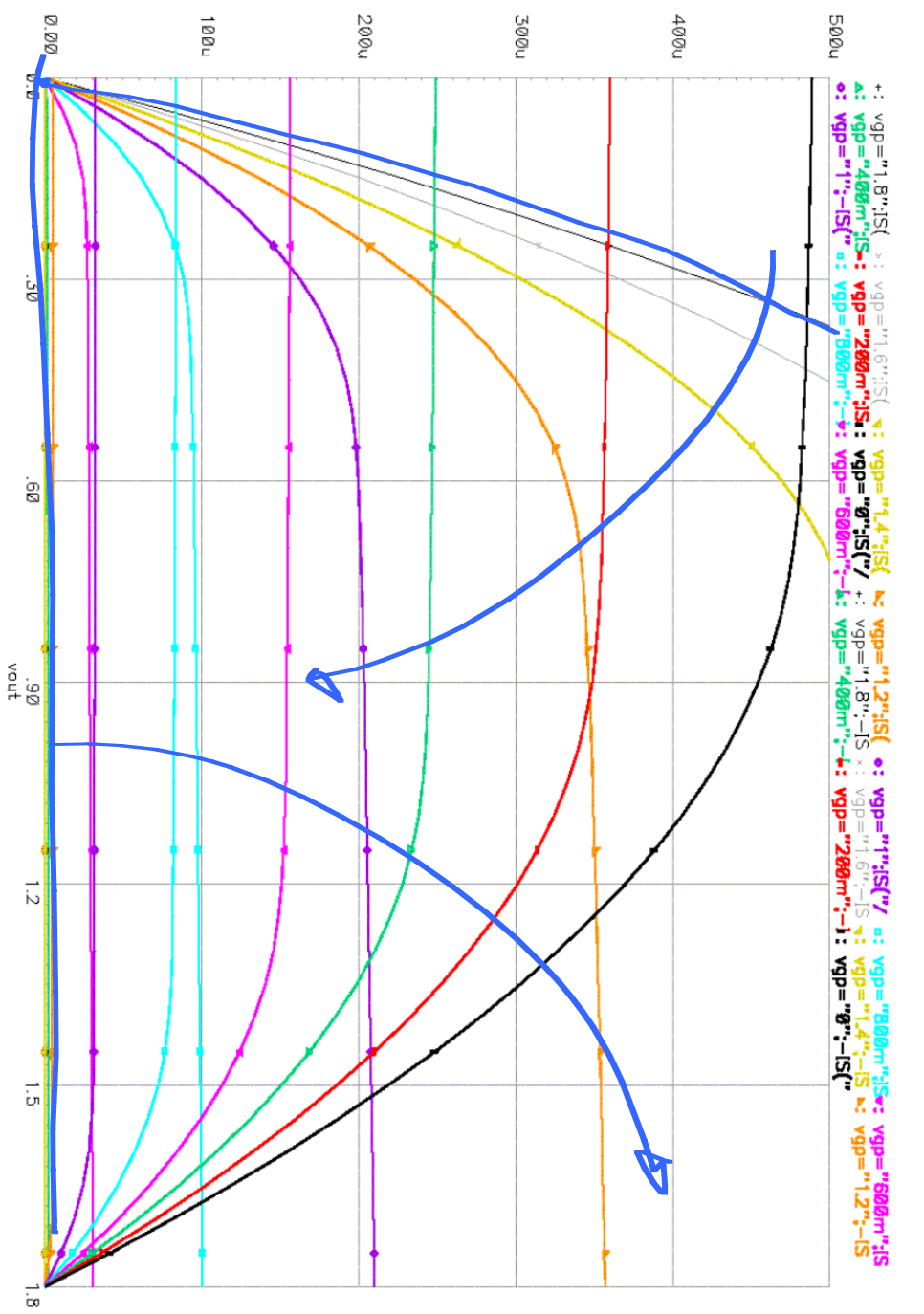


Resistive load DC Response



Active load





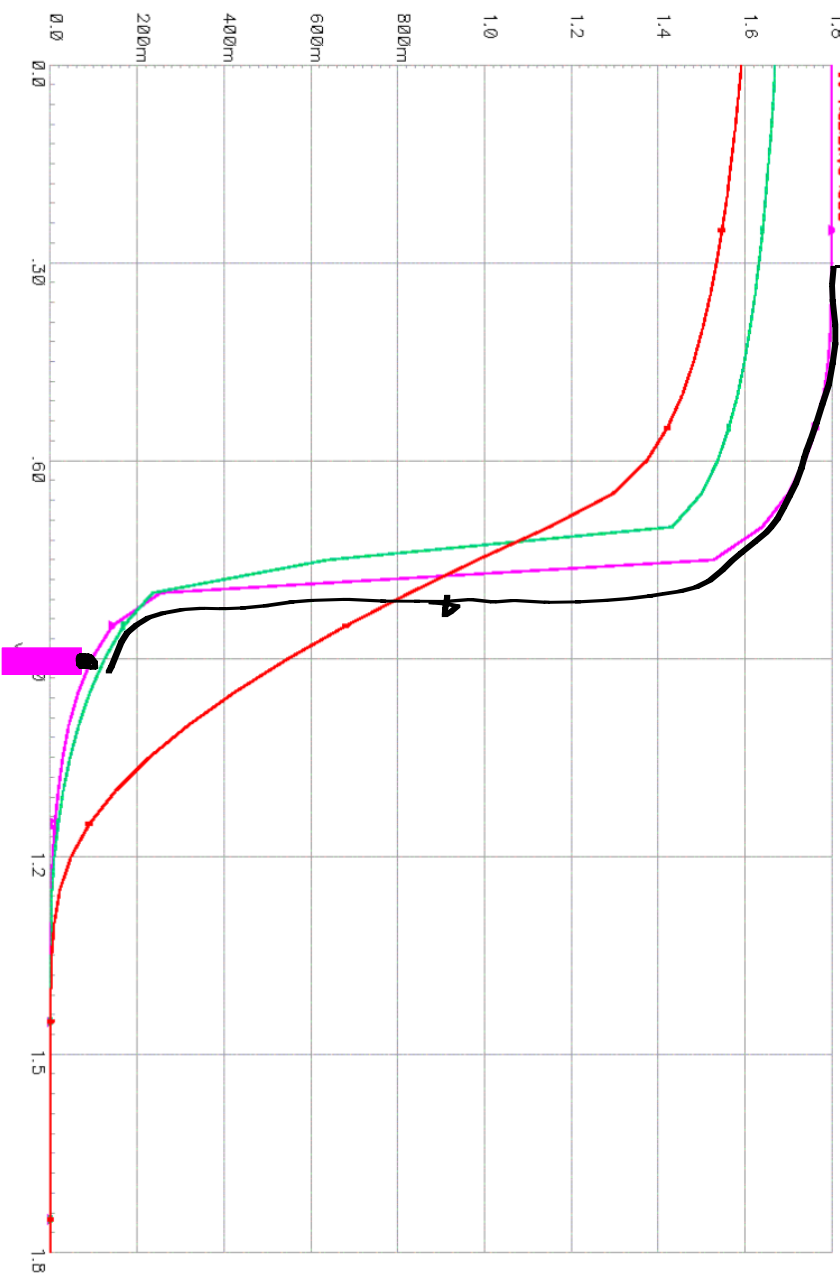
rlhw201_errrashv schematic : Sep 29 15:06:21 2008

DC Response

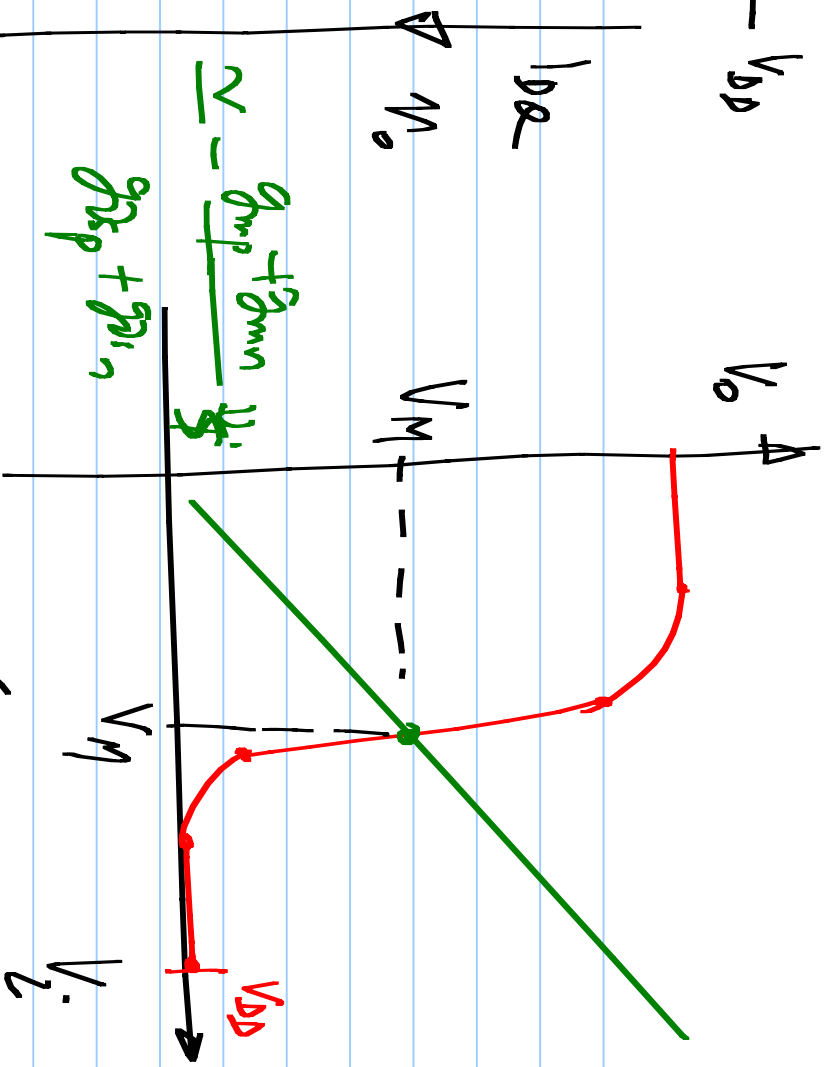
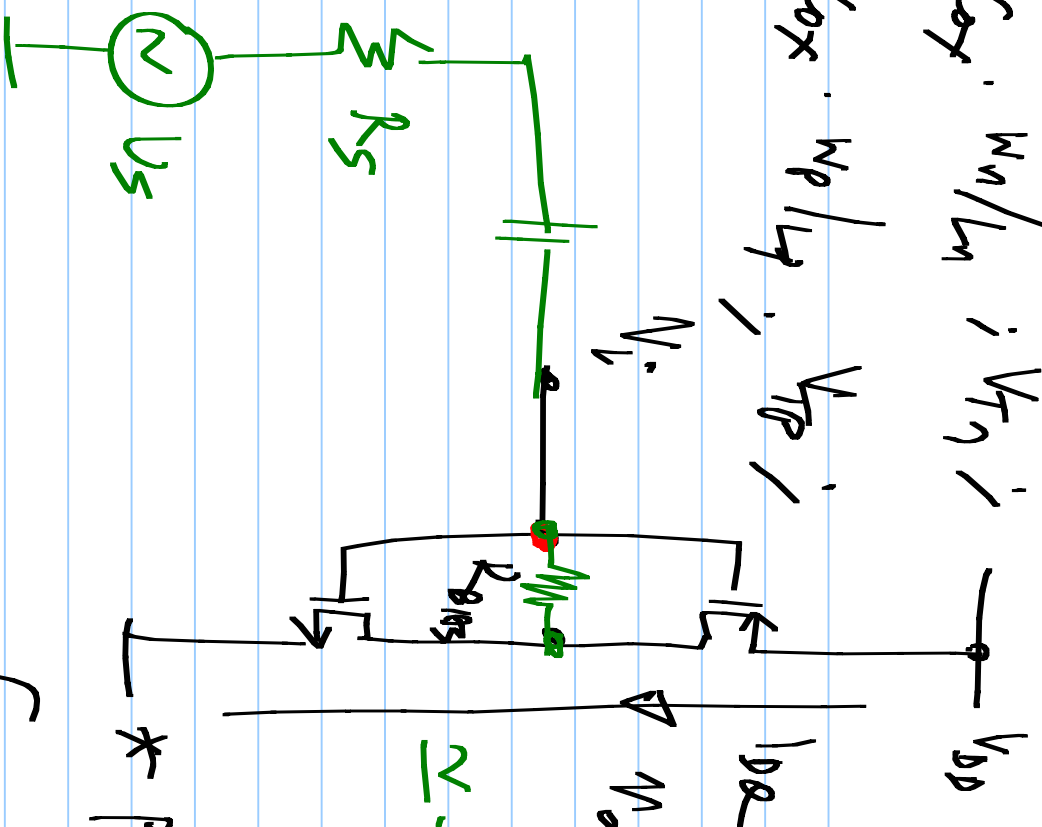
-- Active load

+: Inverter

o: Resistive load



$\mu_{n\text{ox}} \cdot W_n/L_n$; V_{Tn} ;
 $\mu_{p\text{ox}} \cdot W_p/L_p$; V_{Tp} ;



$$V_i = \frac{g_{mnp} + g_{mnn}}{g_{sp} + g_{sn}}$$

* pl. find $\frac{V_i}{V_i}$ (incl. R_{bias})
 [* find $I_{D,Q}$]