

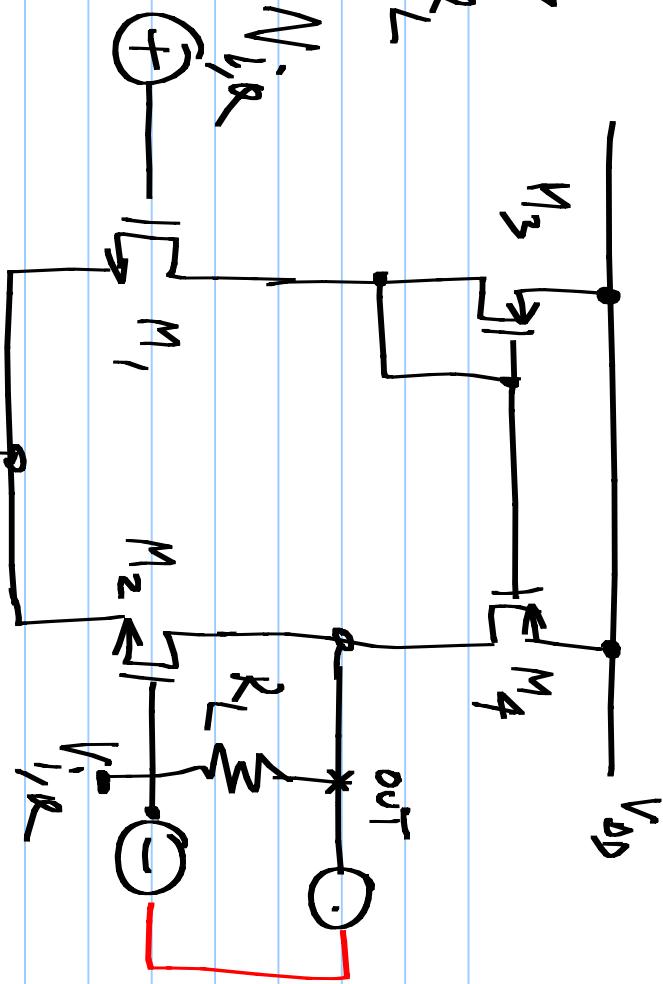
total

$$V_o = k \cdot V_{iR}$$

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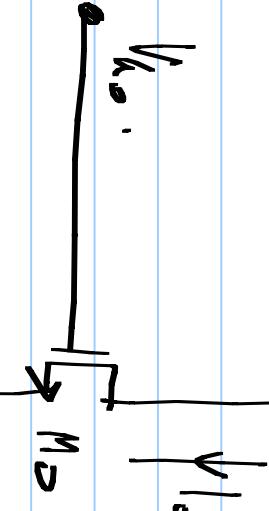
range allowed for V_{iR}

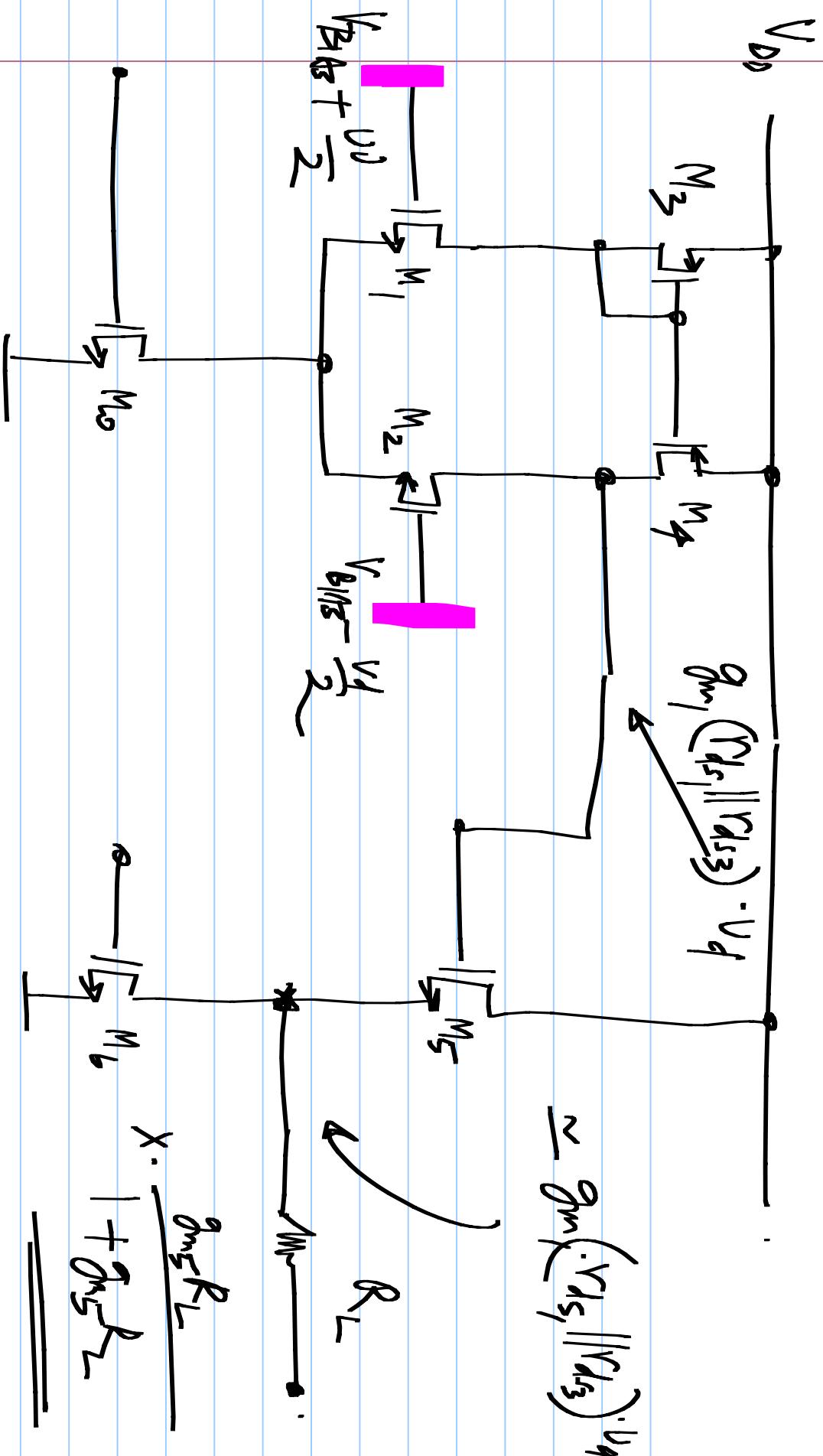
total V_o must be in the range allowed for V_{iR}



SOURCE STAGE op-Amp

$$M_2 = g_m \left(r_s' \parallel r_s \parallel k \right)$$



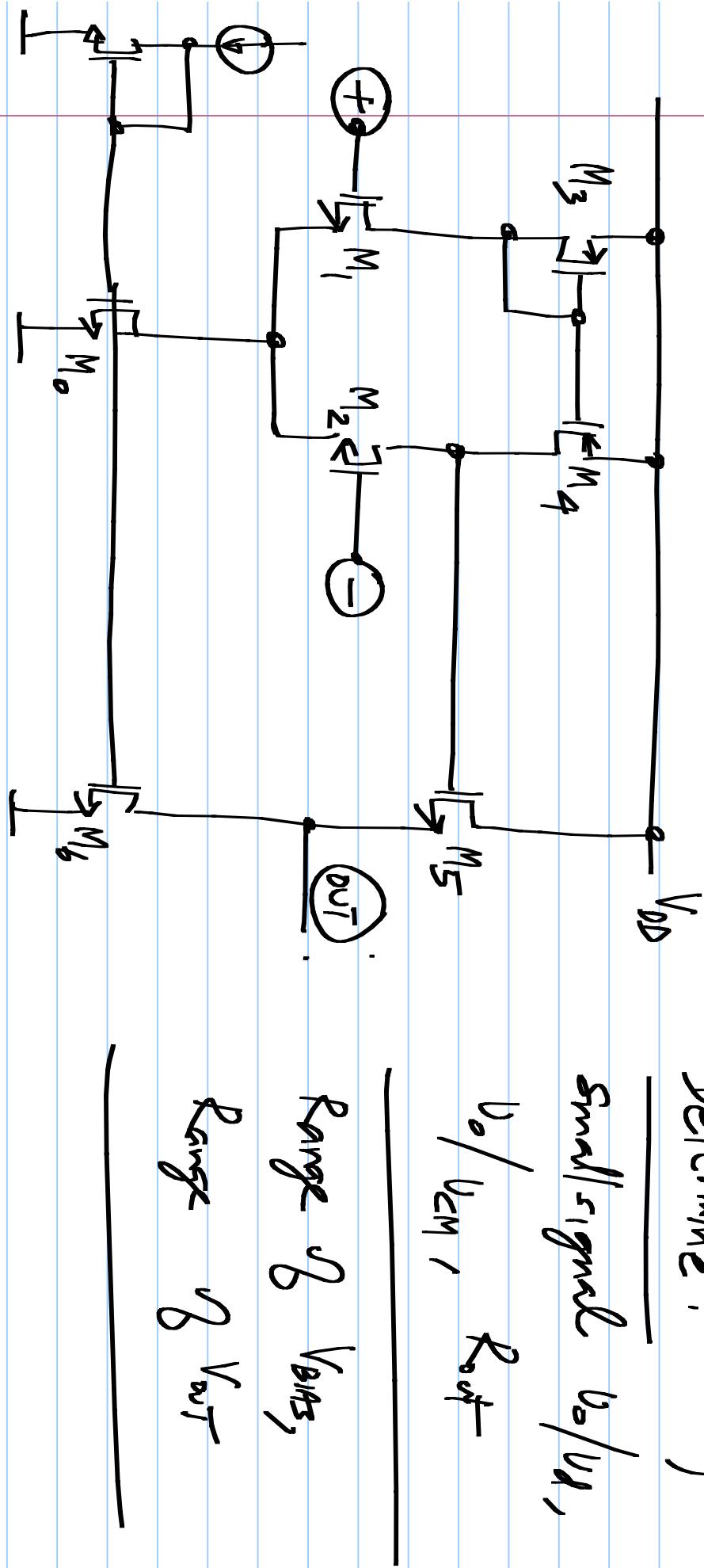


Single stage opamp w/ buffer:

Ind. Comp, $\frac{V_{out}}{V_{in}}$

Determine:

Small signal V_o/V_{in} , R_{out}



Range of V_{bias}

Range of V_{out}

