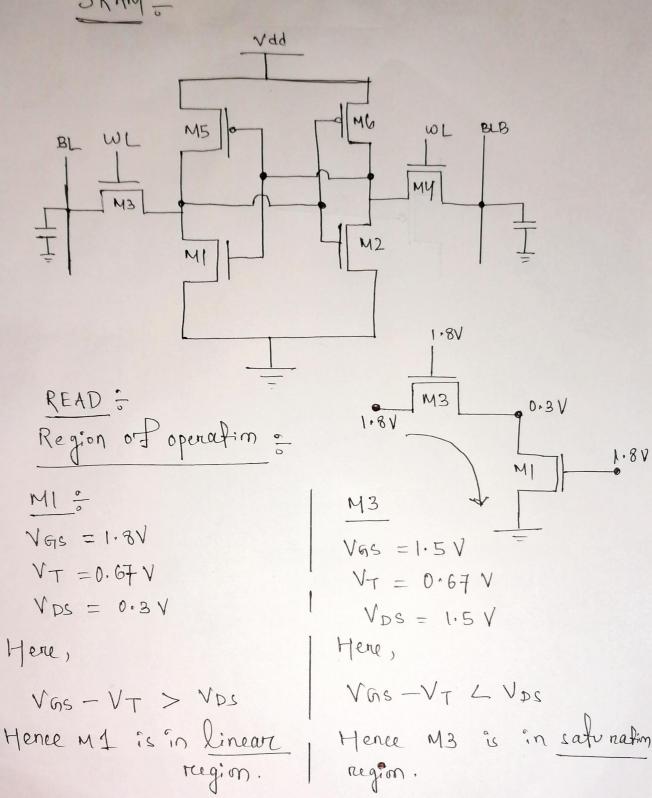
SRAM :



$$I_{M3} = lin (in(\frac{\omega}{L})_3) \left[ (V_{05} - V_T) V_{05} - \frac{V_{05}^2}{2} \right]$$

$$= lin (on(\frac{\omega}{L})_3) \left[ 1.13 \times 0.3 - 0.3^2 \right]$$

$$\Rightarrow I_{M3} = lin (on(\frac{\omega}{L})_3) \times 0.294 - (11)$$
We know that :  $I_{M5} = I_{M3}$ 

$$\Rightarrow 0.224 lin(\frac{\omega}{L})_5 = 0.294 lin(\frac{\omega}{L})_3$$

$$\Rightarrow \frac{(\frac{\omega}{L})_5}{(\frac{\omega}{L})_3} \leq \frac{lin}{2} \times \frac{0.294}{0.224}$$

$$\Rightarrow \frac{lin}{2} \approx 45 (Approx)$$

$$\Rightarrow \frac{(\frac{\omega}{L})_5}{(\frac{\omega}{L})_3} \leq \frac{6.56}{(\frac{\omega}{L})_3}$$

ý.

We have few equations:

$$\frac{\left(\frac{\omega}{L}\right)_{3}}{\left(\frac{\omega}{L}\right)_{1}} \leq 0.85 \Rightarrow \frac{\left(\frac{\omega}{L}\right)_{1}}{\left(\frac{\omega}{L}\right)_{3}} \geq 1.176$$

$$\frac{\left(\frac{\omega}{L}\right)_{3}}{\left(\frac{\omega}{L}\right)_{3}} \leq 6.56$$

$$\frac{\left(\frac{\omega}{L}\right)_{3}}{\left(\frac{\omega}{L}\right)_{3}} \leq 350 \text{ nm}$$

$$\frac{\left(\frac{\omega}{L}\right)_{1}}{\left(\frac{\omega}{L}\right)_{2}} \approx 250 \text{ nm}$$

$$\frac{\left(\frac{\omega}{L}\right)_{1}}{\left(\frac{\omega}{L}\right)_{3}} \approx 294 \text{ nm}$$

# Say, 
$$\left(\frac{\omega}{L}\right)_3 = 250 \text{ nm}$$

$$\left(\frac{\omega}{L}\right)_1 > 294 \text{ nm}$$

$$\left(\frac{\omega}{L}\right)_5 \leq 1640 \text{ nm}$$

Hence we can take siting of M1, M3, M5 # since thès is a symmetric strenture accordingly

M1 = M2M3 = M4 M2 = M6