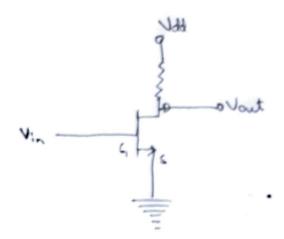
COMMON SOURCE AMPLIFTER

i) Cincuit diagram

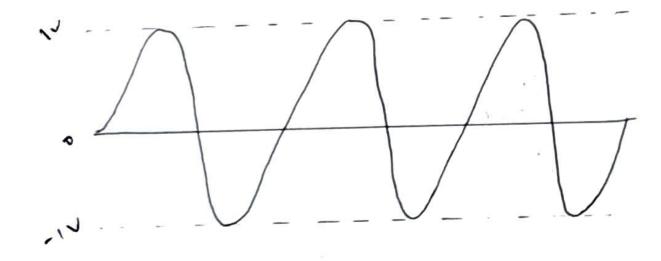


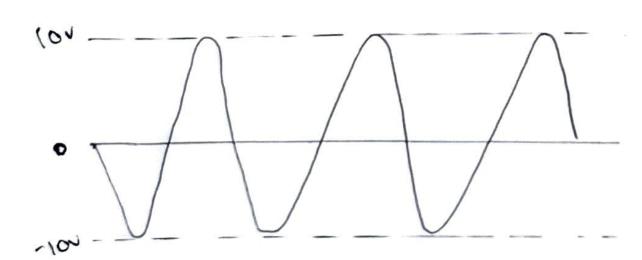
Calculation

we have
$$Av^2 = 2\left(\frac{\omega}{L}\right)_{R}$$

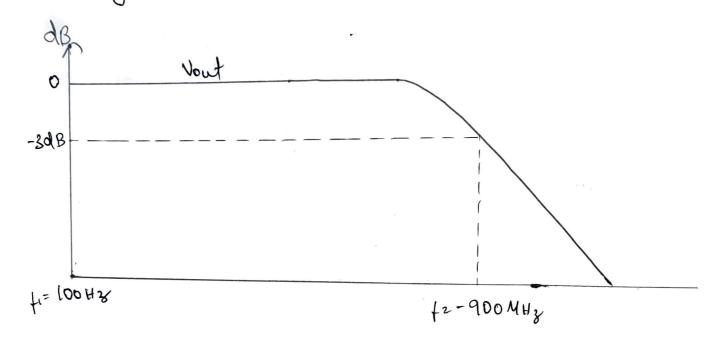
$$\left(\frac{W}{L}\right)_{P} = \frac{2}{20}$$

Transiert Analysis

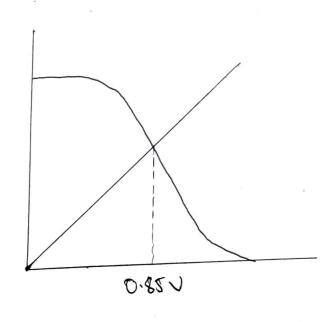








DC Aralysis



Bias Point - 850mV