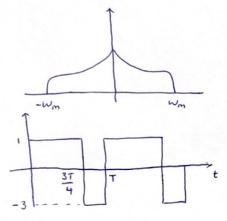
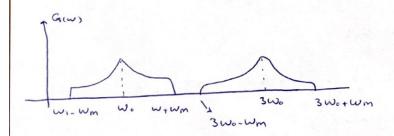
#3



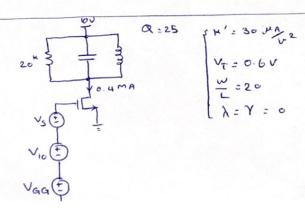
$$S(t) = \frac{a_0}{2} + \sum_{n=-\infty}^{+\infty} a_n \cos w_0 t + b_n \sin w_0 t$$

$$S(t) = \frac{\alpha_0}{2} + \sum_{n=-\infty}^{+\infty} a_n \cos w_0 t + b_n \sin w_0 t \implies \alpha_0 = \frac{1}{T} \int_0^T S(t) dt = \frac{1}{T} \int_0^{3T} \frac{1}{4} dt - 3 \int_0^{3T} \frac{1}{4} dt = 0$$

$$an = \frac{2}{T} \int_{0}^{T} S(t) a s n \omega_{0} t dt = \frac{2}{T} \left( \int_{0}^{3T} a s n \omega_{0} t - 3 \int_{0}^{T} a s n \omega_{0} t \right) = \frac{-1}{n \pi}$$



$$=> 2W_0 > 2W_m$$
  
 $=> W_0 > W_m$ 



$$\frac{90ss = \frac{2 \log s}{|V_P|} \left(1 - \frac{V_{GS}}{V_P}\right) = \frac{2 \log s}{|V_P|} = 9ma}{|V_P|} = \frac{1}{|V_P|} = \frac$$

#7

$$\frac{V_1}{2} = \frac{V_1}{2} \cos_2 \omega_{0} t$$
 $\frac{V_2}{1} = \frac{V_1}{2} \cos_2 \omega_{0} t$ 
 $\frac{V_2}{1} = \frac{V_2}{2} \cos_2 \omega_{0} t$ 
 $\frac{V_2$