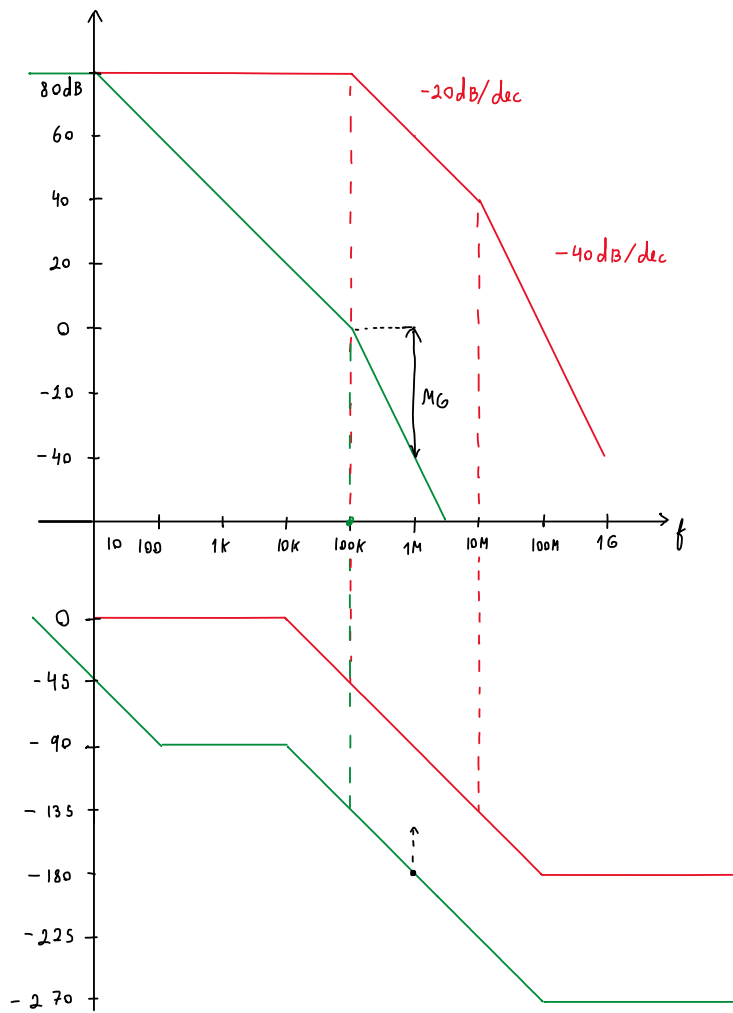


a) $A_0 = 10^5 = 100 \text{ dB}$
 $f_{p1} = 10^5 \text{ Hz} = 100 \text{ kHz}$
 $f_{p2} = 10^7 \text{ Hz} = 10 \text{ MHz}$
 $A_f = 20 \text{ dB}$
 $A_f \approx \frac{1}{\beta} \Leftrightarrow \beta = -20 \text{ dB}$
 $\text{Logo } A_0 \beta = 80 \text{ dB}$
 $M_G = 40 \text{ dB}$



$$f_p = \frac{f_{p1}}{A_0 \beta} = 10 \text{ Hz}$$