

12-33

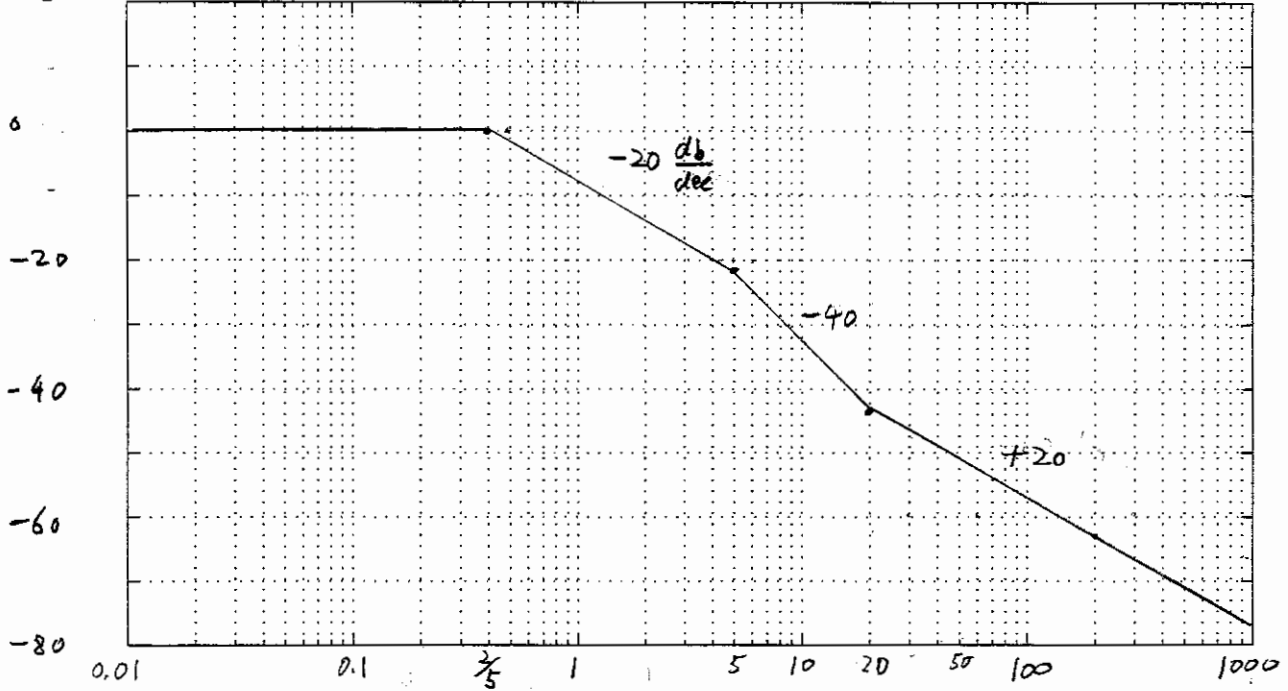
$$T(s) = \frac{(s+20)}{(10s+4)(s+5)} = \frac{(20+1)}{(\frac{s}{5}+1)(\frac{s}{5}+1)}$$

$$\Rightarrow T(j\omega) = \frac{(j\omega 20+1)}{(\frac{j\omega}{5}+1)(\frac{j\omega}{5}+1)}$$

Pole $\omega = \frac{2}{5}$
 Pole $\omega = 5$
 Zero $\omega = 20$

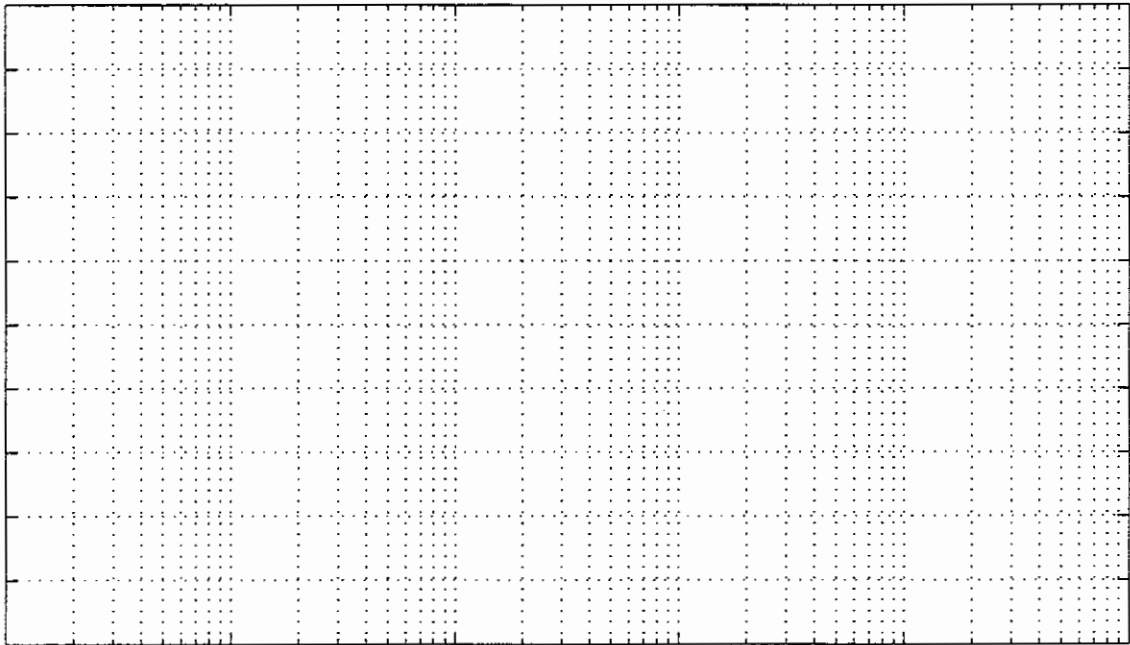
~~12-33~~
A10

10 dB



Low pass

$$\omega_c = \frac{2}{5} \quad \text{Gain} = 1, 0 \text{ dB}$$



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