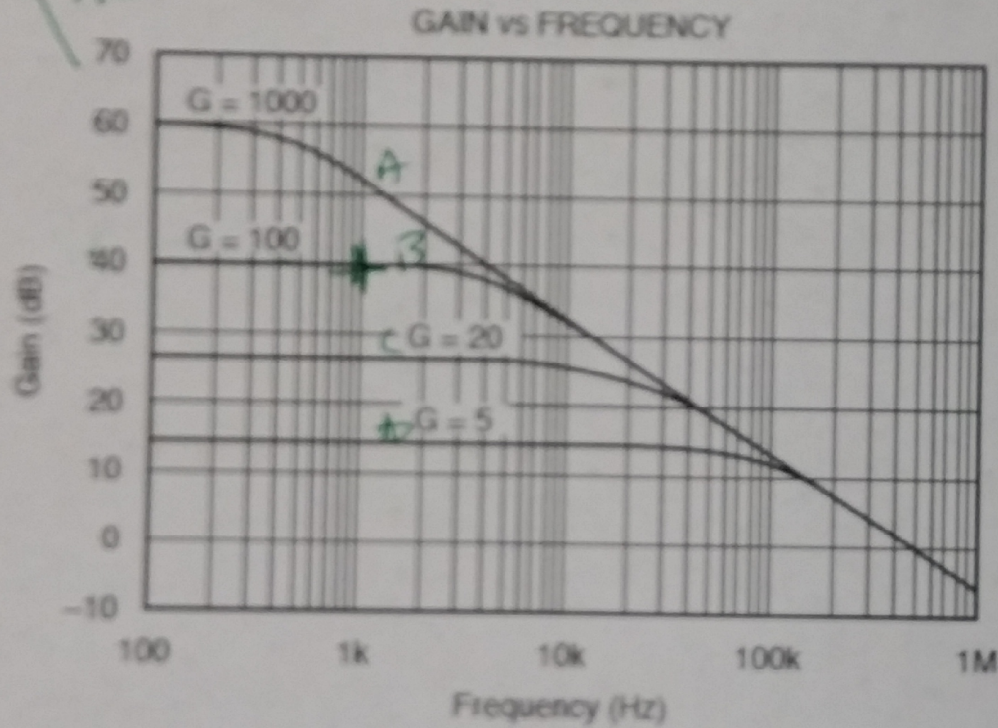


# Bode example

$|H(\omega)|$



Find  $V_{out}(t)$  given: For curve B  
 $V_{in}(t) = 1 \text{ mV} \cos(2\pi \cdot 1\text{kHz} \cdot t)$

If  $G=100$  curve

(a) 1 kHz

40 dB

$$V_{out} = 100 \times V_{in}$$

$$V_{out} = H(\omega) V_{in}$$

$$V_{out}(t) = 100 \mu\text{V} \cos(2\pi \cdot 1\text{kHz} \cdot t)$$

$$V_{out,rms} = |H(\omega)| V_{in,rms}$$