

An op-amp that has a gain-bandwidth $f_T = 1$ MHz is wired up in a standard non-inverting configuration with $R_2 = 99$ k Ω and $R_1 = 1$ k Ω . The input is a sinusoid with an amplitude of 0.1 V. What will be the output amplitude if the input sinusoid has a frequency of 1 kHz? What will be the output amplitude if the input frequency is 10 kHz? What will be the output amplitude if the input frequency is 100 kHz?

output amplitude at 1 kHz = _____

output amplitude at 10 kHz = _____

output amplitude at 100 kHz = _____