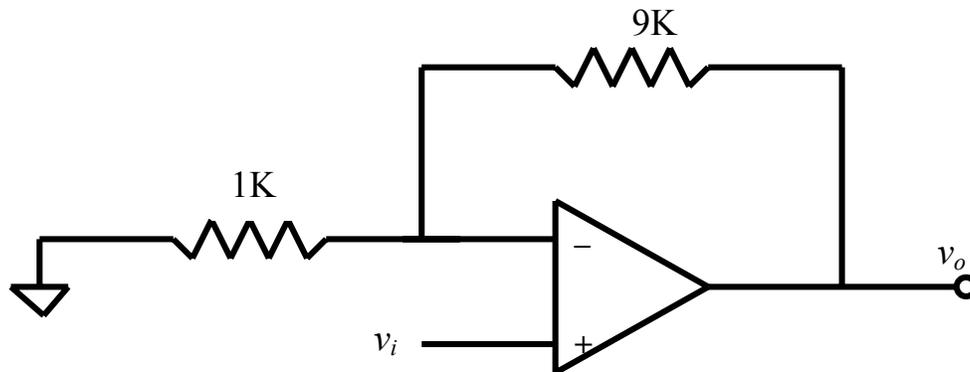**Special Problem 2.7-2**

The amplifier below has a 3 dB **bandwidth** of **100 kHz**.

1)   What is the **gain-bandwidth product** of the op-amp used in this amplifier?

2)   At what **frequency** is the magnitude of the amplifier gain **equal to one** ?

3)   What would the **3 dB bandwidth** of this amplifier be if we changed R_2 to **99 KΩ**?

4)   Say we **replace** the op-amp with one having a gain-bandwidth product of **100 kHz**. What is the 3 dB **bandwidth** of this amplifier if R_2 = **9 KΩ**?