Special Problem 2.7-4

The amplifier below has an open-circuit voltage gain $A_{vo} = v_O / v_I$ and a 3dB **bandwidth** of 1 MHz.

The op-amp is **not** ideal.

1) At what frequecny (in Hertz) is the gain of this amplifier equal to **one** (i.e., $|A_{vo}(f = ?)| = 1$)?

2) What is the **gain** this amplifier at a signal frequency of 5 MHz (i.e., $|A_{vo}(f = 5x10^6)| = ?$)?

3) Determine a **new value** of resistor R_2 so that **bandwidth** of the amplifier is changed to 4.0 MHz.