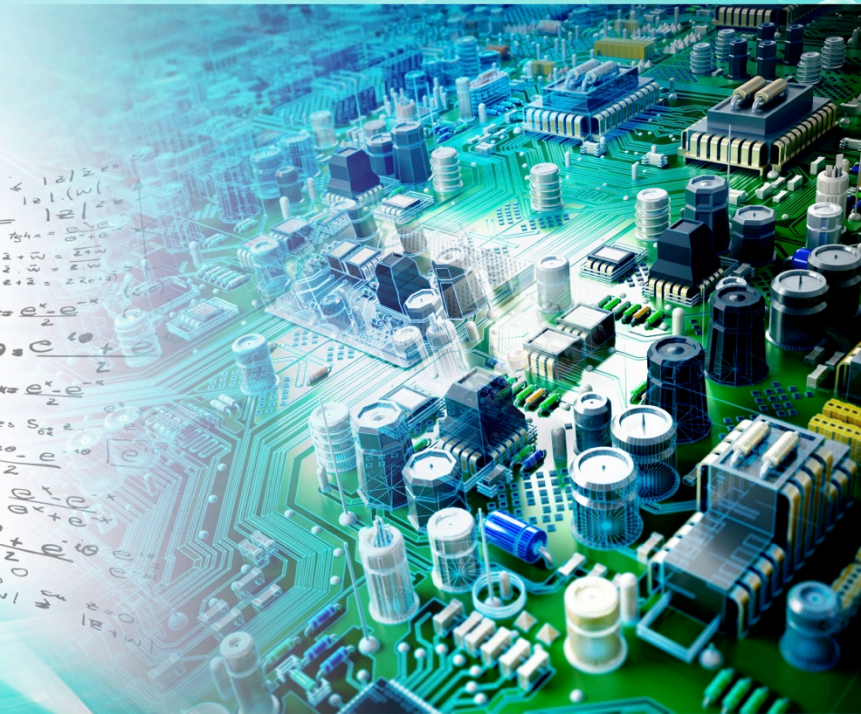


# Bandwidth 4

Multiple Choice Quiz

TI Precision Labs – Op Amps



## Quiz: Bandwidth 4

**1. (T/F) A second pole in the Aol curve can cause deviation in the gain bandwidth product.**

- a. True
- b. False

**2. Deviation in the \_\_\_\_ can help identify small bends in the Aol curve that may not be obvious otherwise.**

- a. dc Aol
- b. Phase shift
- c. Slew rate
- d. Input capacitance

**3. The input capacitance of an op amp can affect bandwidth if \_\_\_\_.**

- a. The amplifiers gain bandwidth product is high.
- b. The amplifiers slew rate is low.
- c. A large source resistance is connected in series with the input.
- d. The amplifier is an zero drift type amplifier.

## Quiz: Bandwidth 4

**4. (T/F) The gain of an amplifier is constant until you reach the cutoff frequency.**

- a. True
- b. False

**5. (T/F) The Cf filter is most effective for amplifiers in low gain.**

- a. True
- b. False

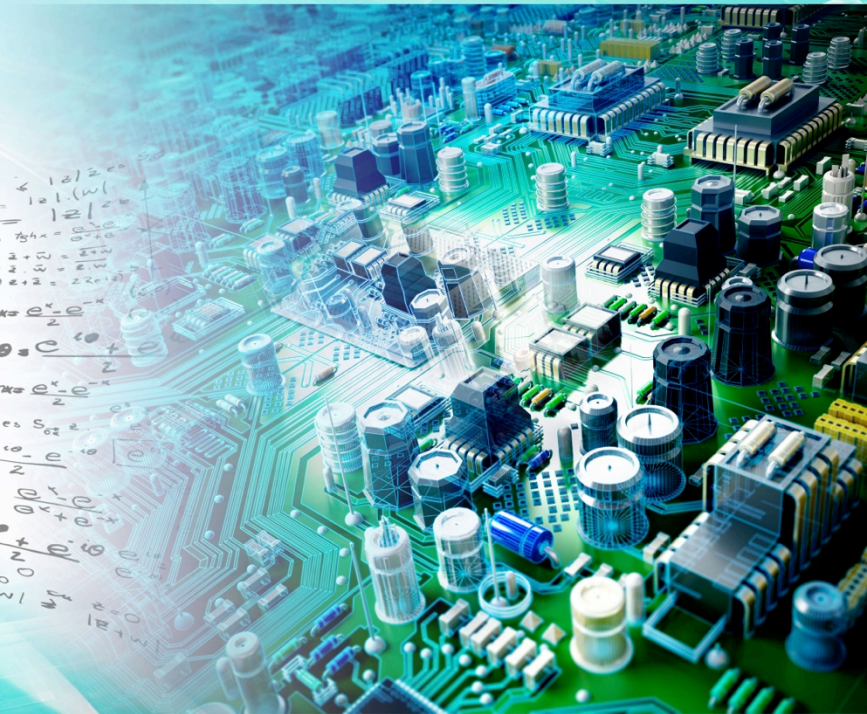
**6. Assume a sinusoidal waveform is applied to the input of an amplifier. What could cause the output to look like a triangle wave?**

- a. Slew-induced distortion
- b. Bandwidth limitation
- c. The input capacitance and source resistance create a low pass filter.
- d. Output swing limitations.

# Bandwidth 4

Multiple Choice Quiz: Solutions

TI Precision Labs – Op Amps



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