Operational Amplifiers - I

1. a. Drive a 150 ohm load from your function generator and determine the magnitude of the voltage. If you have a function generator with 50 ohm output impedance use a 50 ohm resistor.

   b. Without changing the amplitude setting of the function generator, introduce an op amp voltage follower between the function generator and the load. What is the difference in the voltage across the load? What is the gain of the voltage follower? Explain.

2. Build and test a gain of 50 inverting amplifier. Build and test a gain of 50 non-inverting amplifier. What is the high-frequency limit of each?

3. Build a differentiator, and observe its output vs input with different waveforms over a range of frequencies.