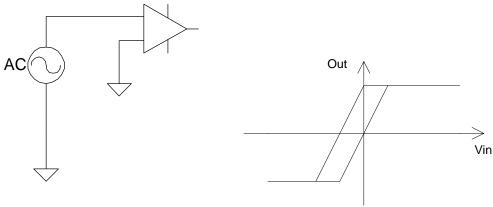
Purpose:

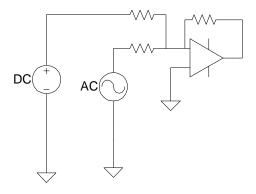
This shows open loop, intverting adder, and non-inverting configurations of an opamp.

Steps:

Part 1: Open Loop

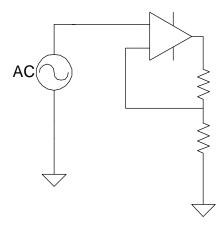


The hysteresis varies with temperature which can be changed with a can of liquid cold or a hot air gun. Part 2: Inverting Adder



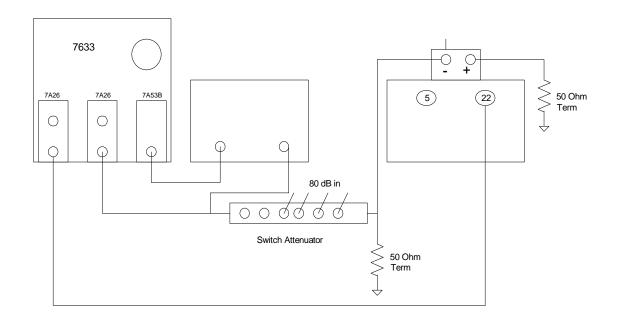
This was not shown in class.

Part 3: Non-Inverting Amplifier



This was done in lecture and shown to have temperature immunity.

**Description: Opamp Characteristics** Part 1) Open Loop Scope: Vert 5V/Div Horiz 50 uV/Div **Attenuator:** 80 dB Store a Single Sweep to avoid Hysteresis Part 2) Inverting Adder Part 3) Non-Inverting Amplifier Set Switches on Op-Amp Card #2 to Up, Down **Remove Attenuator Invert Polarity on Ch2** Scope: Non-Store 2V/Div Ch4 Ch2 5V/Div **Function Generator = 100 Hz** 



Equipment:

Switchable Attenuator
(2) 50 Ohm terminators
Dual H.P. Supply w/card plug-in capability
Op-Amp transfer function & Input Output card
Op-Amp Non-Inverting Ckts 2
IEC Genetator
Bring Heath Gun and Frost Test Cooler

## Scope Settings:

Vert Mode = LEFT, Trig Source = RIGHT Vert Ch2 = 5v/Div (INVERTED) Vert Ch4 = 2v/Div, trig Source ch4

## 7B53A Settings:

Mode= Norm Coupling = DC Source = INT Mag = In

way = III

Sweep Time = Amp (Fully CCW)

## IEC Gen. Settings:

3 v P-P Cal

Freq. = 0.3 Hz Sine wave