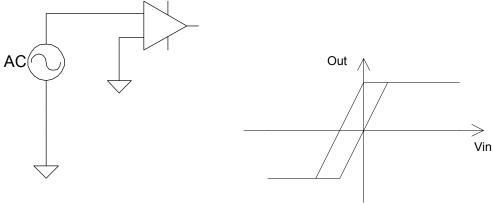
Purpose:

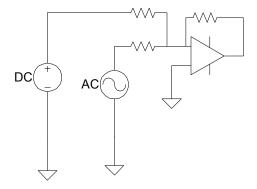
This shows open loop, intverting adder, and non-inverting configurations of an opamp.

Steps:

Part 1: Open Loop

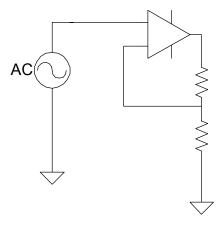


The hysteresis varies with temperature which can be changed with a can of liquid cold or a hot air gun. Part 2: Inverting Adder



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

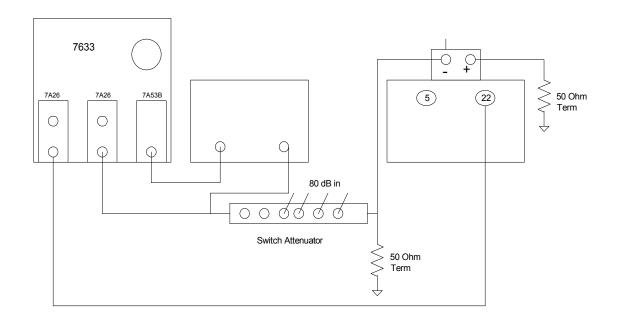
Set Switches on Op-Amp Card #2 to Up, Down Remove Attenuator

Remove Attenuator
Invert Polarity on Ch2

**Scope:** Non-Store

Ch4 2V/Div 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
Sweep Time = Amp ( Fully CCW )

IEC Gen. Settings: 3 v P-P Cal Freq. = 0.3 Hz Sine wave