Examples of Negative Feedback Applications: A) Inverting Amplifiers **1.Summing Amplifier** 2.Differentiator 3.Integrator B) Non Inverting Amplifiers

1. Voltage Follower

Summing Amplifier (Adder) : the inputs are added and the sum is inverted . If all resistors are of equal value, then

$$Vo = -(V_1 + V_2 + V_3)$$

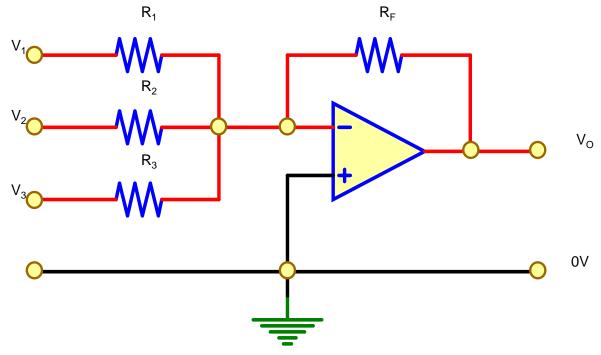
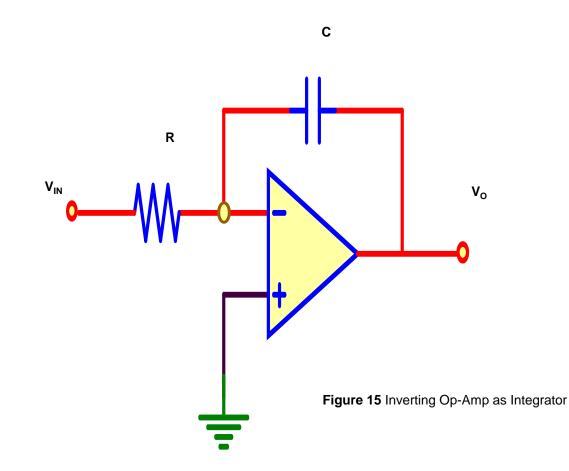
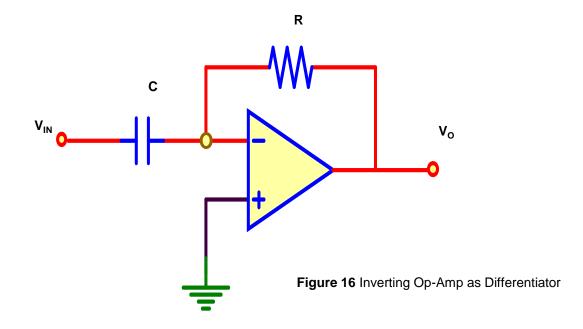


Figure 14 Summing Amplifier

Integrator (the input is integrated with respect to time)



Differentiator (the input is differentiated with respect to time)



Voltage Follower (Non Inverting)

- It is a non inverting amplifier with gain=1
- So the output is the same as input.

