

$$\frac{V_o}{V_i} = -\frac{R_2}{R_1}$$

Equation 1

$$V_o = -\left(\frac{R_2}{R_A}V_A + \frac{R_2}{R_B}V_B + \frac{R_2}{R_C}V_C\right)$$

Equation 2