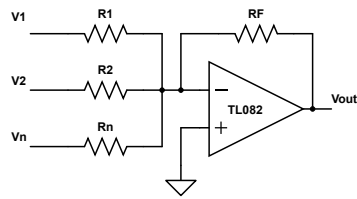
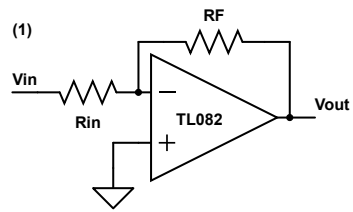


OP-AMP CONFIGURATIONS

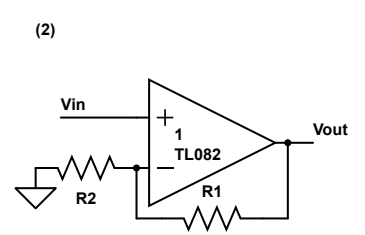


$$V_{out} = -\left(\frac{R_F}{R_1} \cdot V_1 + \frac{R_F}{R_2} \cdot V_2 \cdots + \frac{R_F}{R_n} \cdot V_n\right)$$



$$V_{out} = -\frac{R_F}{R_{in}} \cdot V_{in}$$

(1) Inverting



$$V_{out} = \left(1 + \frac{R_1}{R_2}\right) \cdot V_{in}$$

(2) Non-inverting