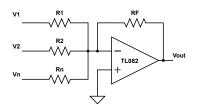
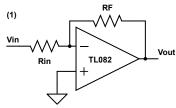
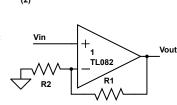
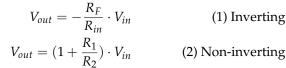
OP-AMP CONFIGURATIONS

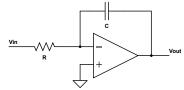




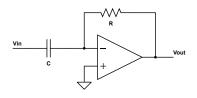


$$V_{out} = -\left(\frac{R_F}{R_1} \cdot V_1 + \frac{R_F}{R_2} \cdot V_2 \cdot \dots + \frac{R_F}{R_n} \cdot V_n\right)$$



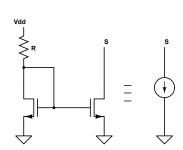


$$V_{out} = -\int_0^t rac{V_{in}}{RC} \, dt + V_{initial}$$
 Integrator / Low-pass

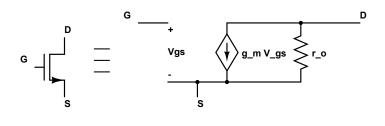


$$V_{out} = -RC \frac{dV_{in}}{dt}$$
 Differentiator / High-pass

MOSSFETS



Mosfet current mirror circuit



Mosfet current mirror circuit