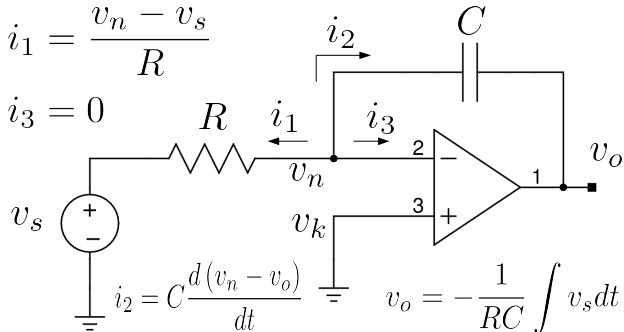


$$i_1 = \frac{v_n - v_s}{R}$$

$$i_3 = 0$$



$$i_2 = C \frac{d(v_n - v_o)}{dt}$$

$$v_o = -\frac{1}{RC} \int v_s dt$$