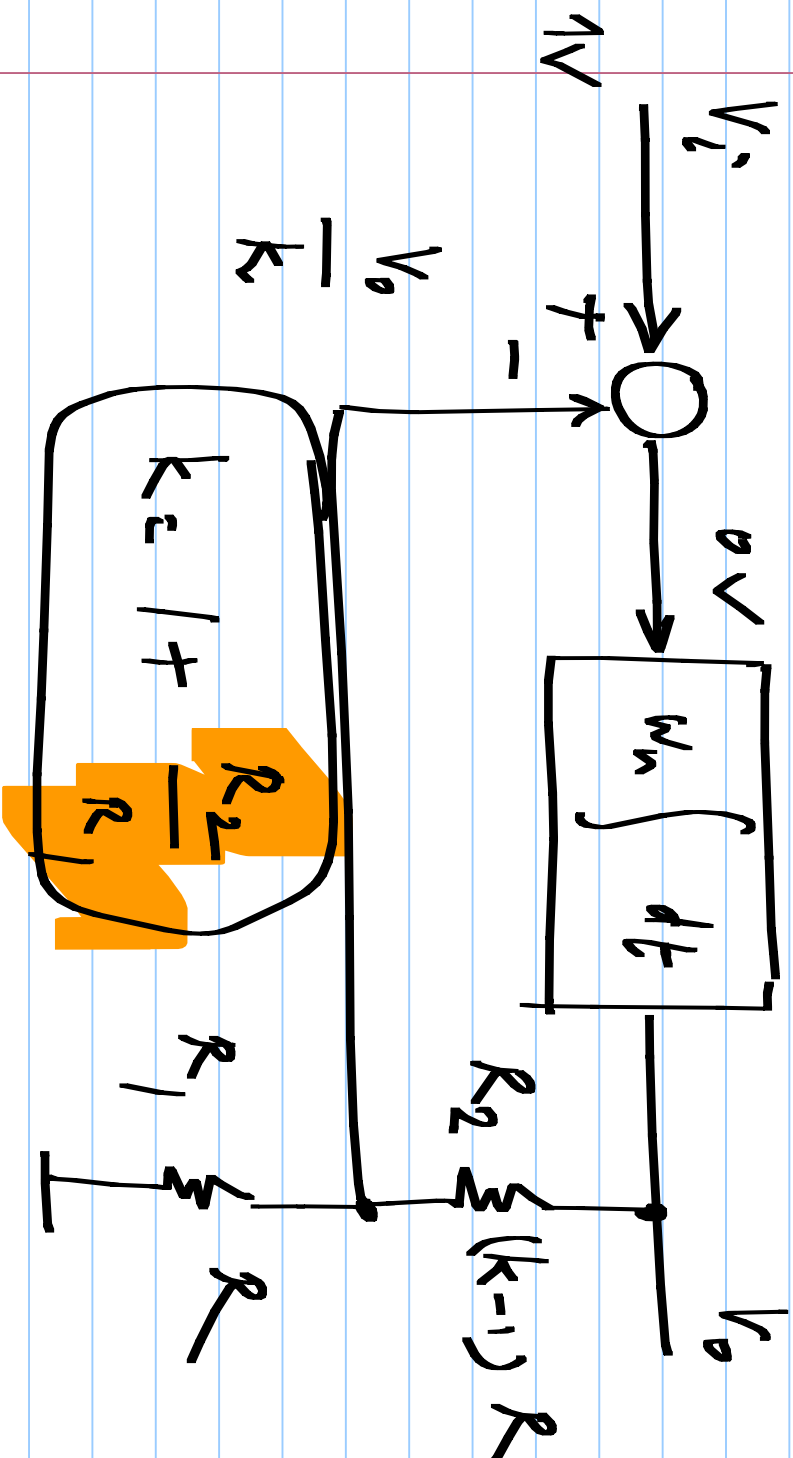


EE2019

$$V_o = k V_i$$

$$V_o = V_i - \frac{V_o}{k}$$

19/1/2018



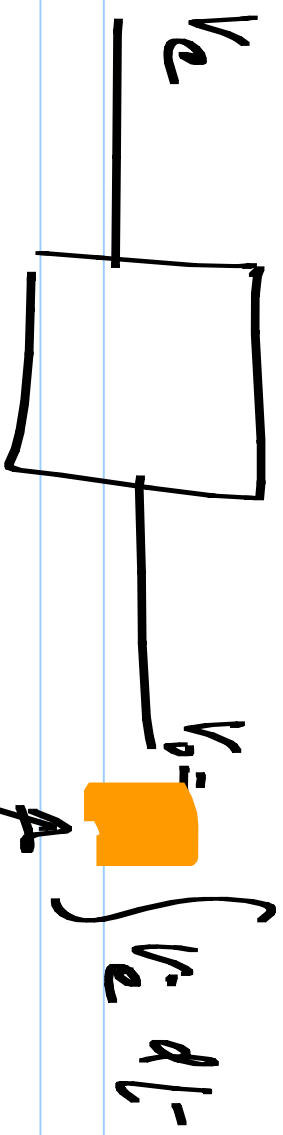
$$\frac{dV_0}{dt} = w_n \left(V_L^0 - \frac{V_0}{K} \right)$$

$$\frac{dV_0}{dt} + \frac{w_n}{K} \cdot V_0 = w_n \cdot V_L^0$$

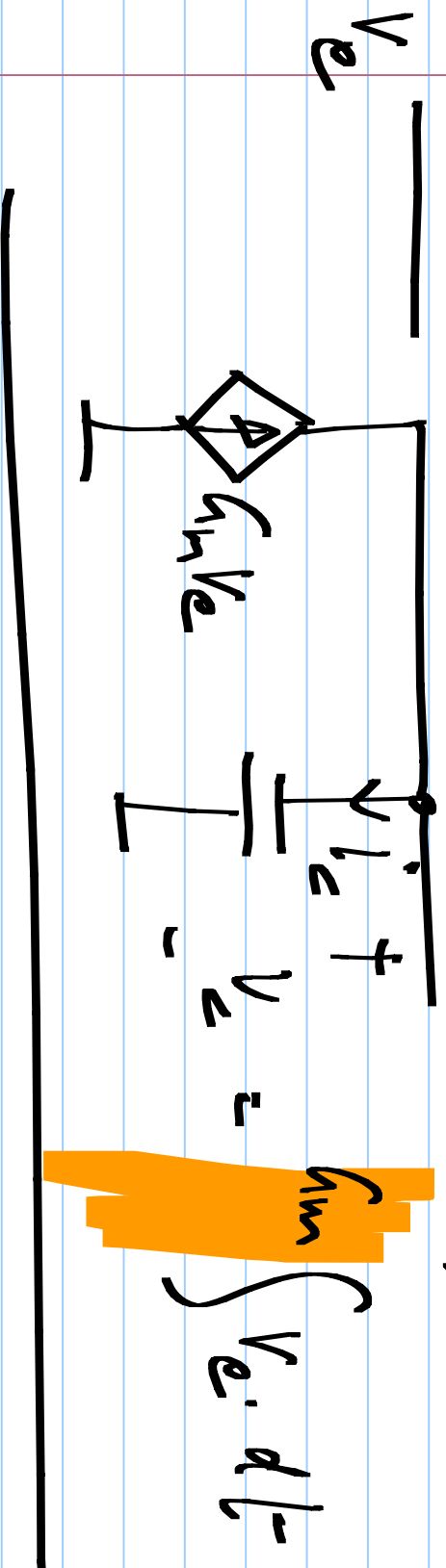
$$\exp\left(-\frac{w_n}{K} \cdot t\right)$$

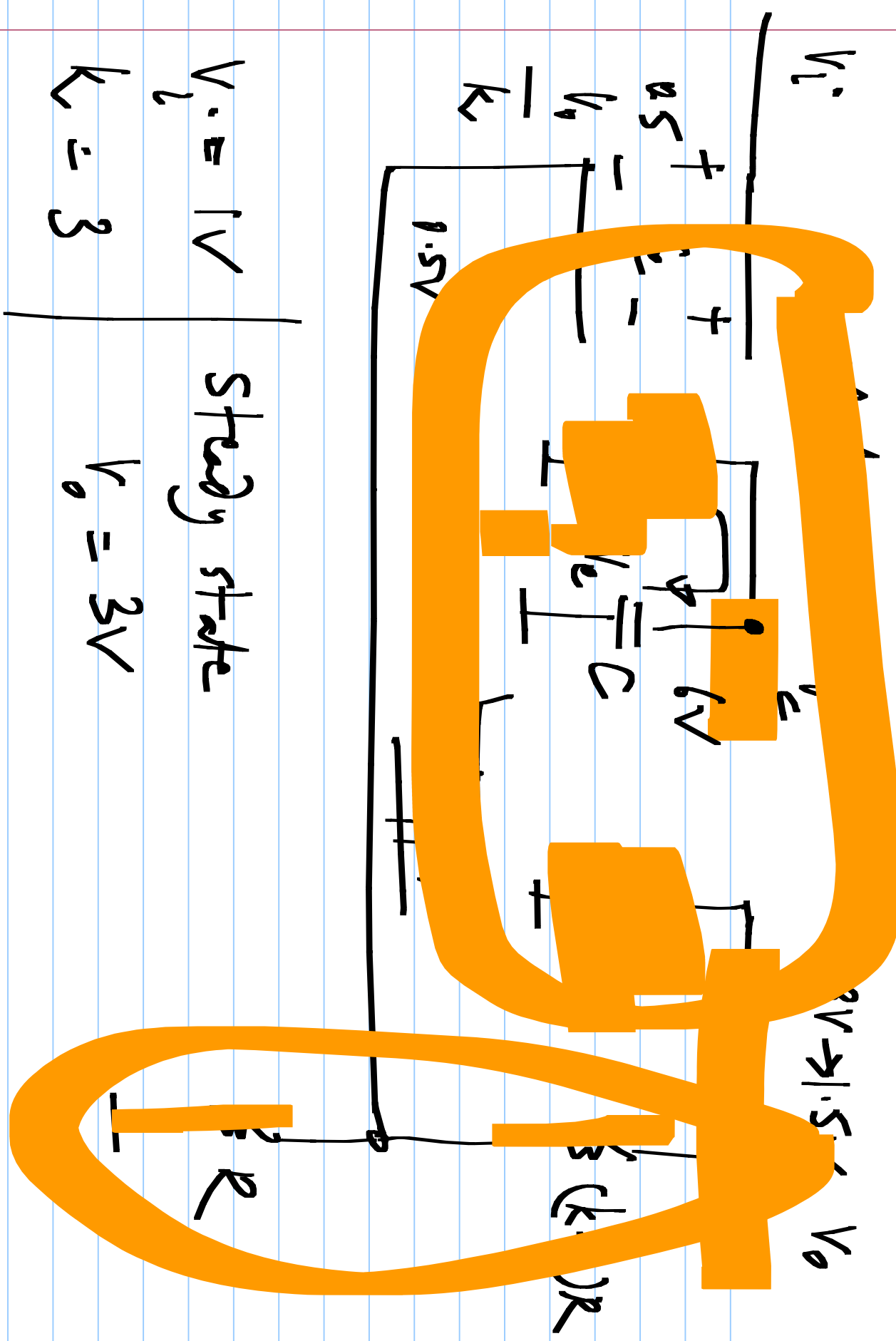
$$\frac{K}{w_n} \cdot \frac{dV_0}{dt} + V_0 = K \cdot V_L^0$$

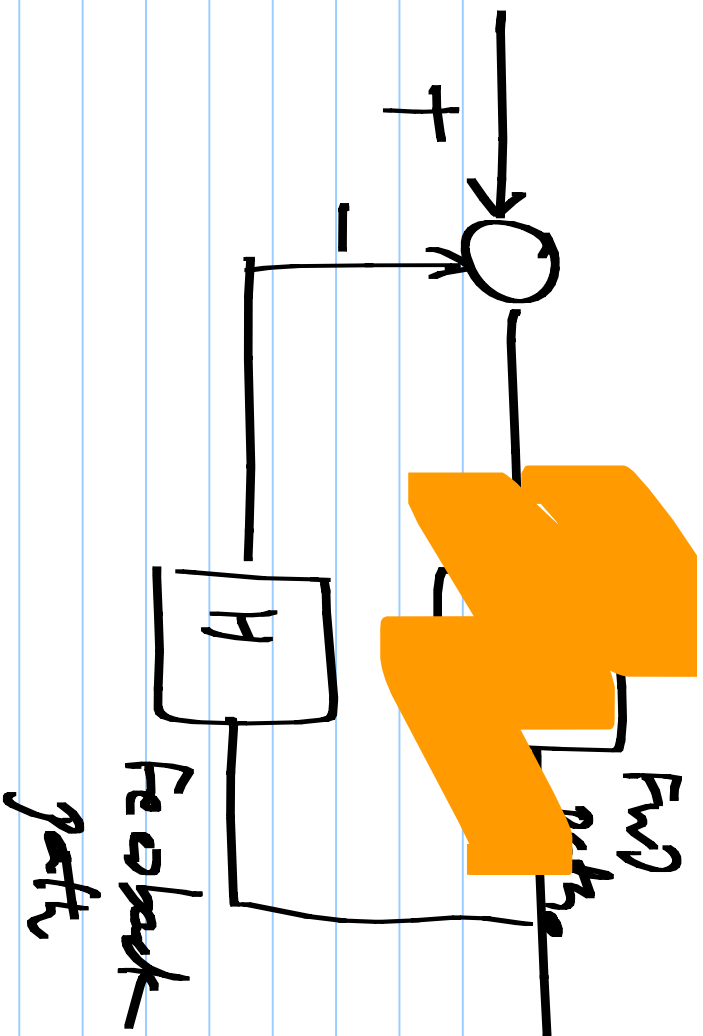
Integrator

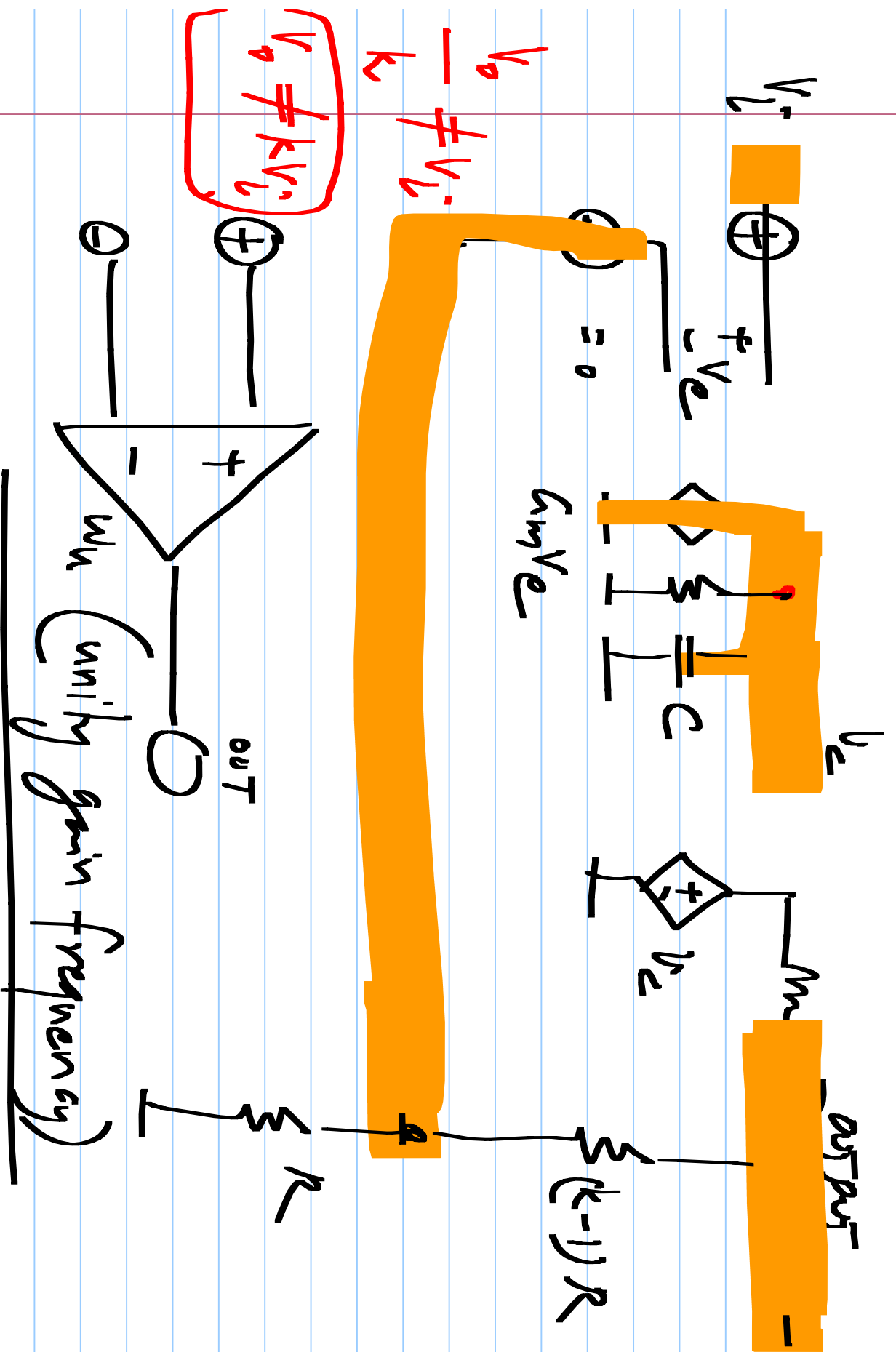


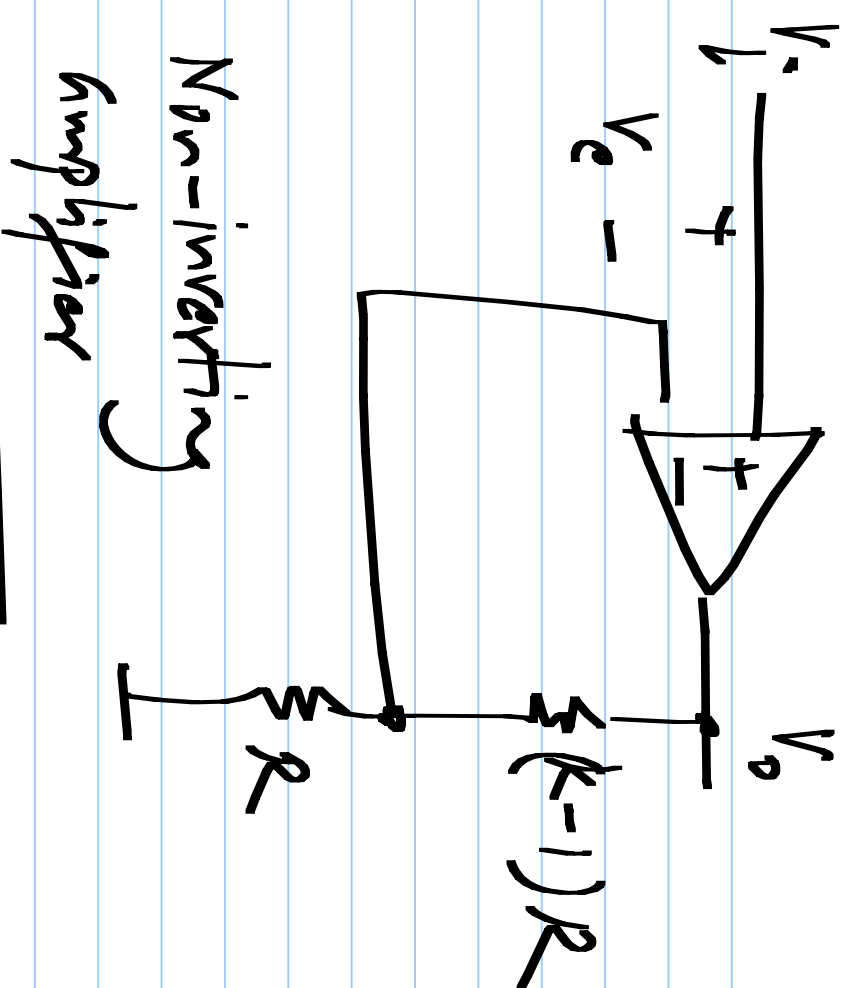
R, L, C controlled sources





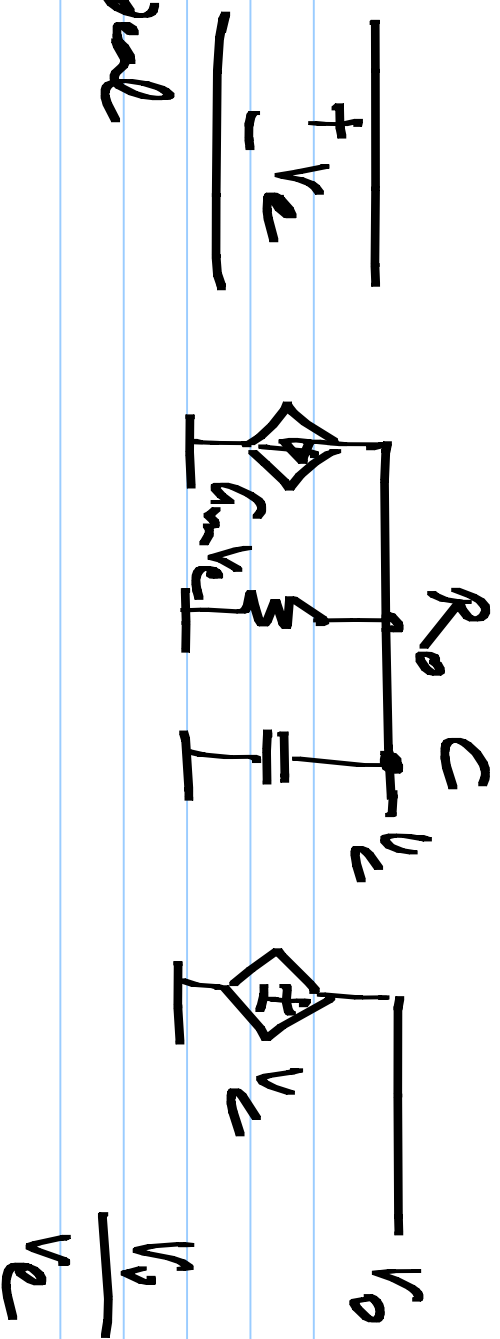






$$\frac{V_o}{V_i} = k > 0$$

Non-ideal



Ideal

