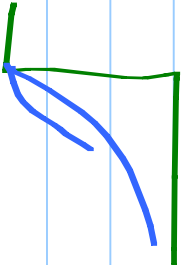
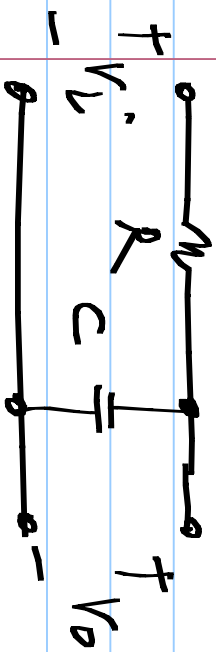


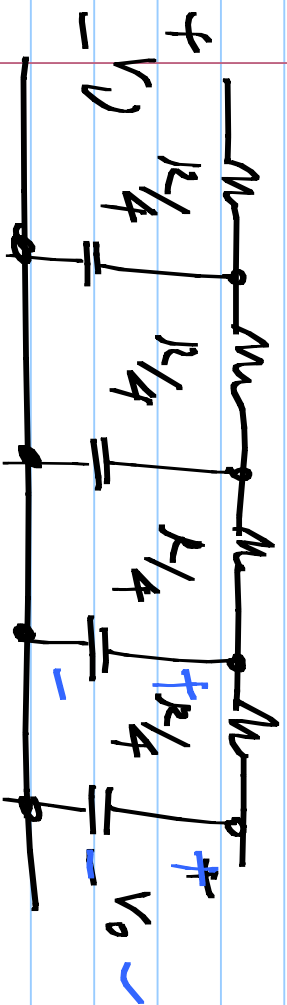
Lecture 29

RC line

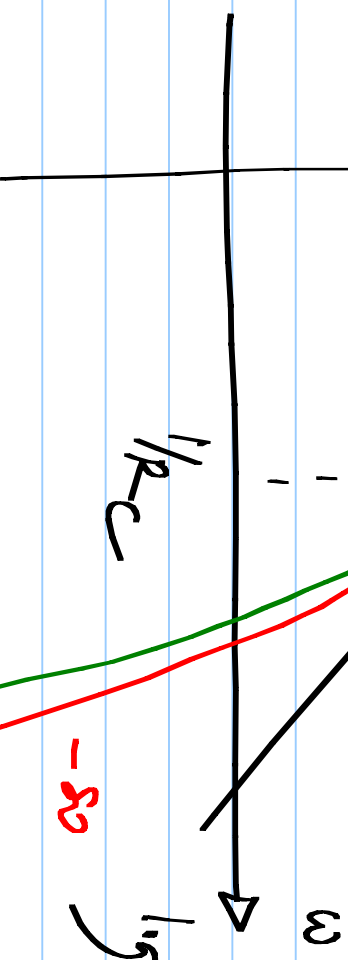


$$\frac{1}{1 + sCR}$$

$$\left| \frac{V_o}{V_i} \right| \Delta_{\log}$$

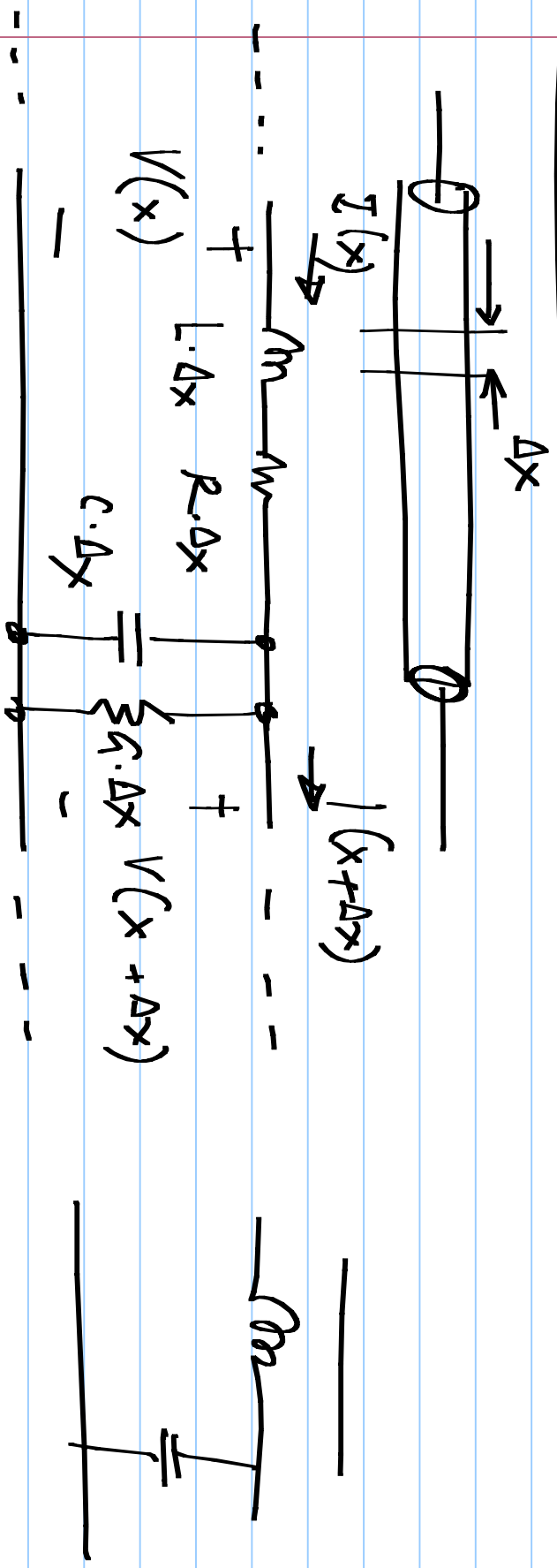


$$C/4$$



Transmission line

L, C, R, G : per unit length

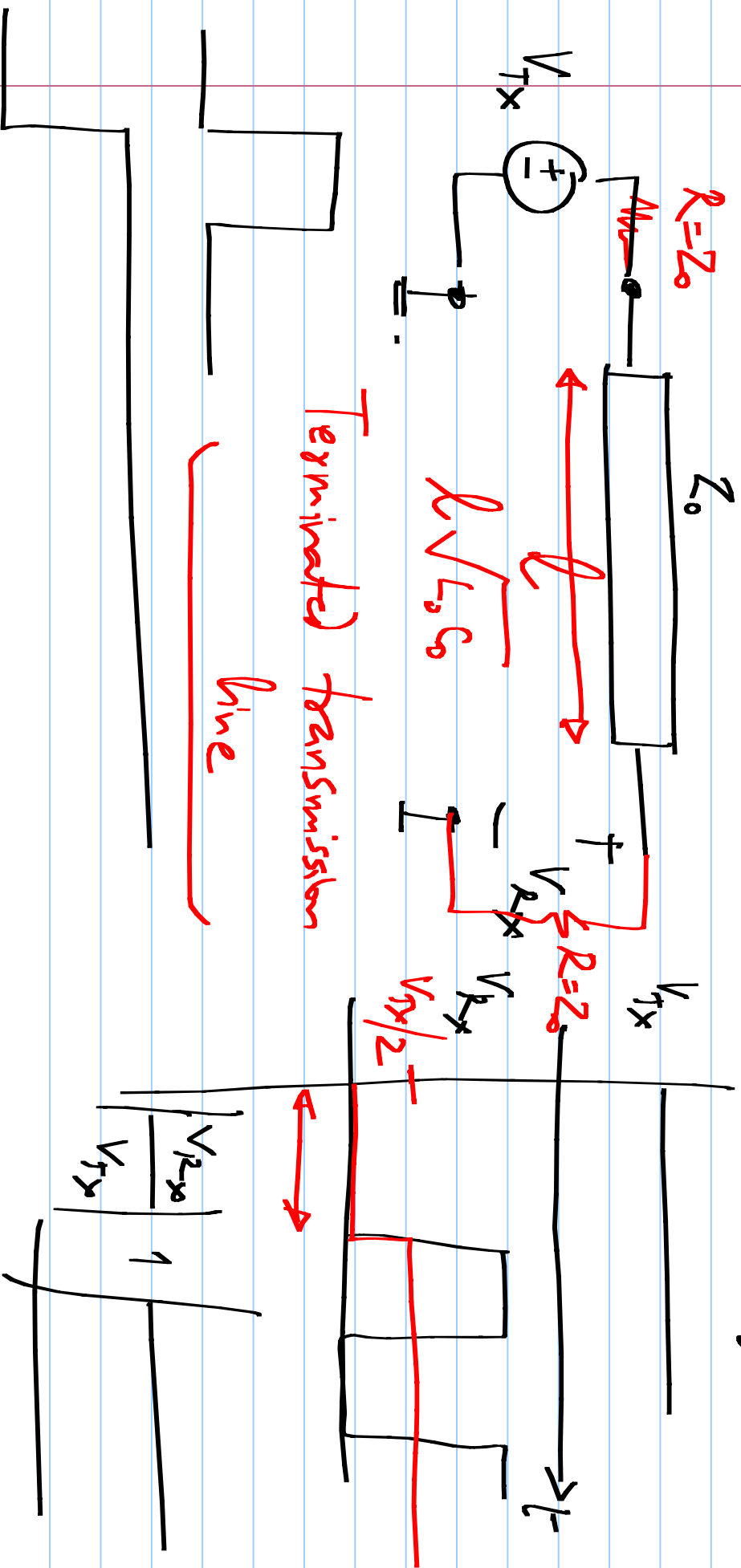


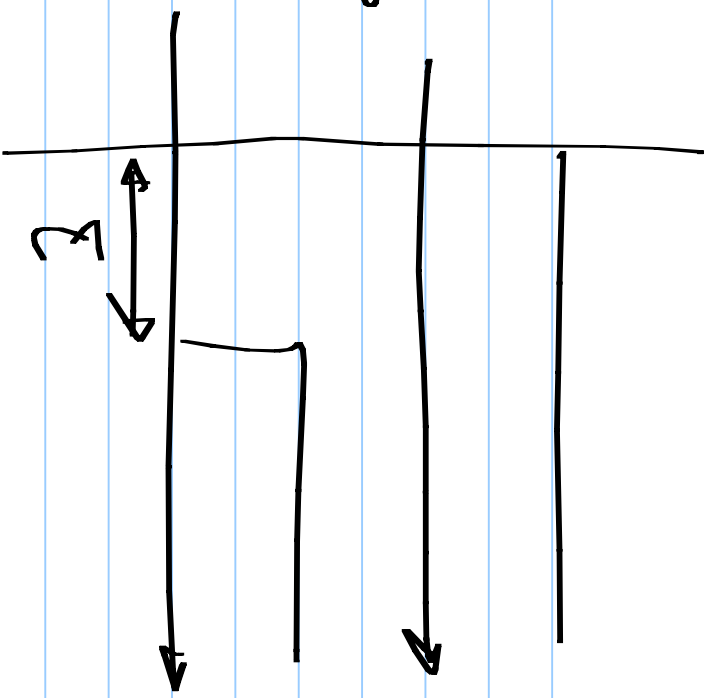
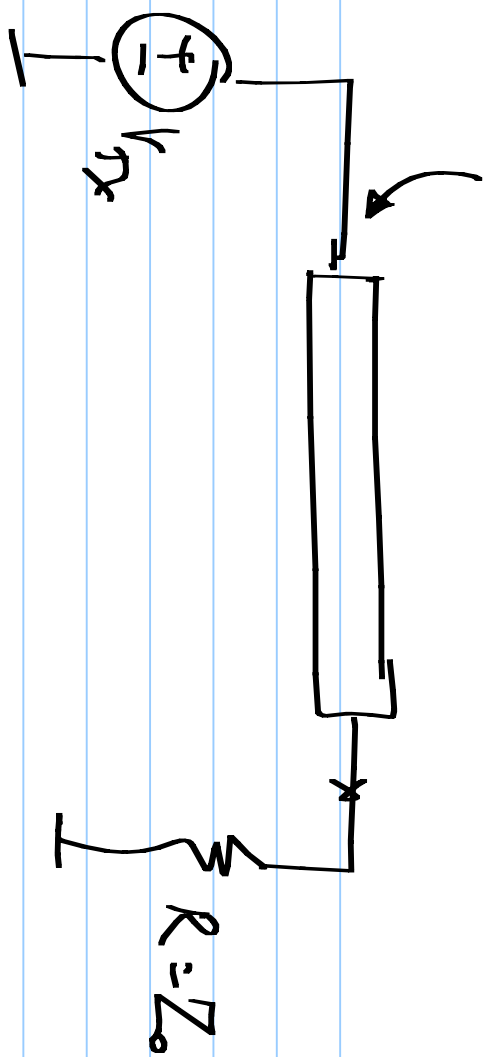
Lossless transmission line : $R=0, G=0$

Lossless transmission line:

$$L_0, C_0$$

$$Z_0 = \sqrt{\frac{L_0}{C_0}}$$





Lossless transmission line terminated on both sides
by $R = Z_0$

* Transfer fn. is freq. independent
↳ Step response is a step.

