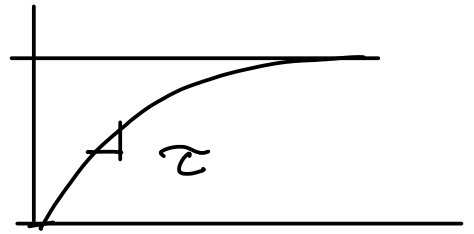
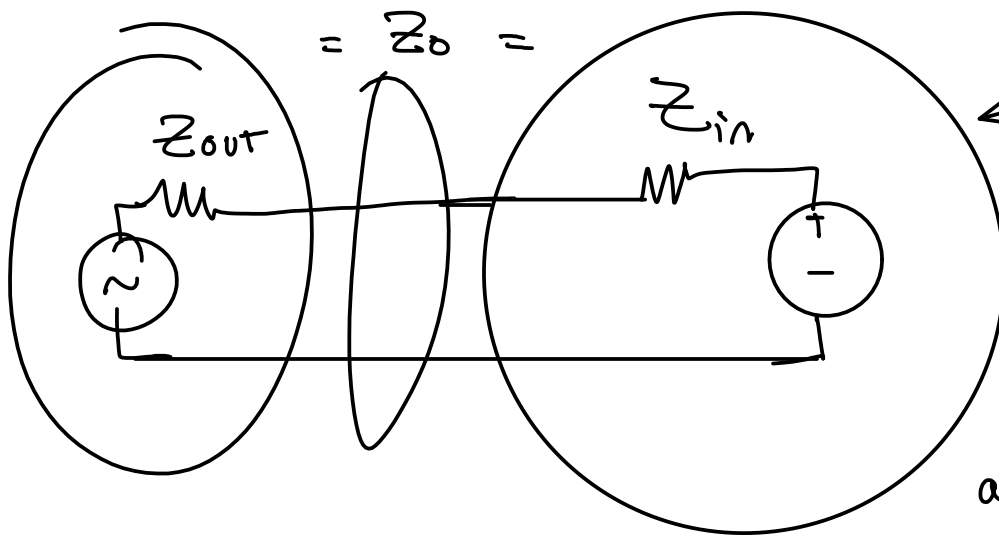
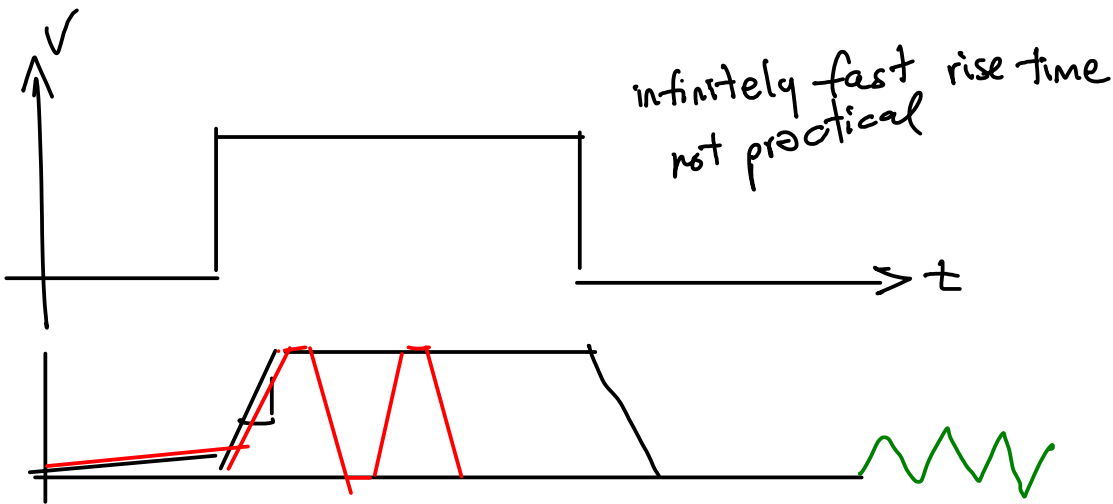
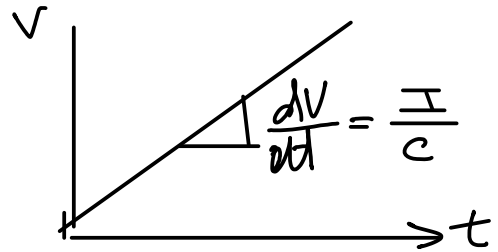
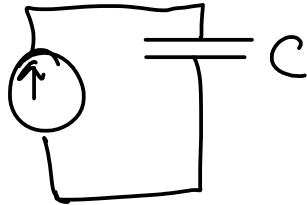


Lecture 6 (questions asked in class)

how are ^{line} capacitance, current & slew rate related?



$$I = C \frac{dV}{dt}$$

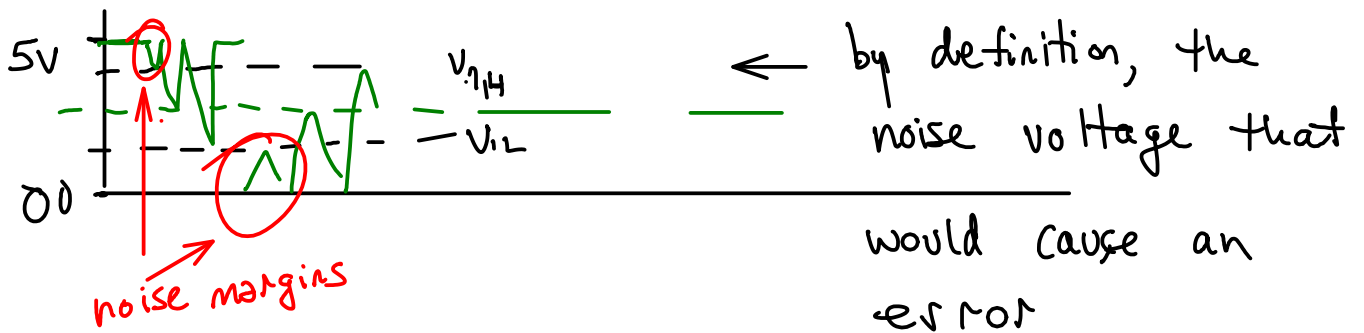


← an active termination adds an ideal voltage source at receiver without affecting the load impedance.

Why offset the signalling levels?

unipolar (0-5V)	bipolar ($\pm 2.5V$)	
$5V \rightarrow 25W$ \uparrow $0V \rightarrow 0W$ $= 12.5W$	$+2.5V \rightarrow 6.25W$ <hr style="width: 50%; margin: 5px auto;"/> $-2.5V \rightarrow 6.25W$ $= 6.25W$	some noise margin (2.5V) BUT Lower average power dissipation (this is good)

What is noise margin if have different high & low thresholds?



(maybe different for high & low input levels)