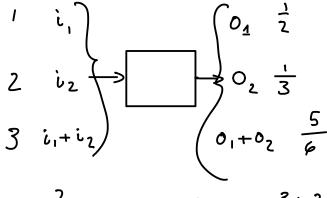
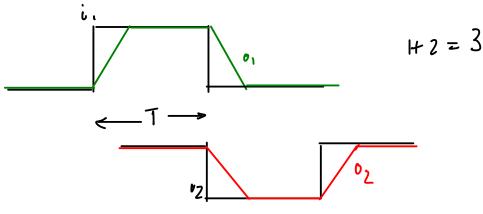
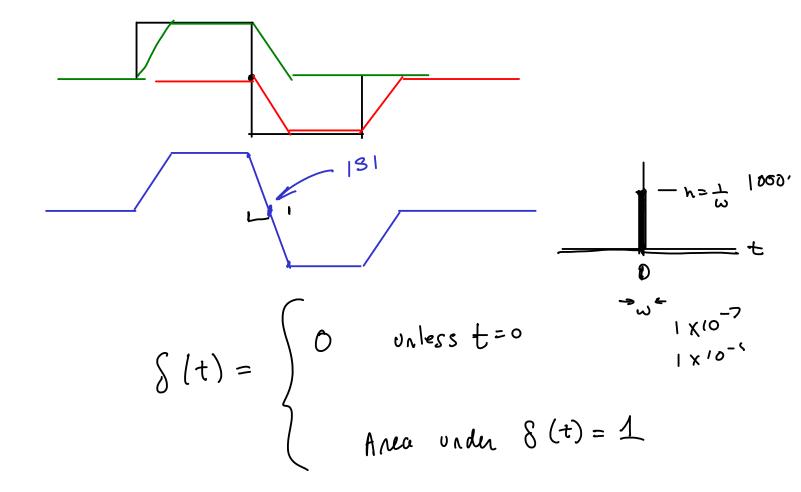
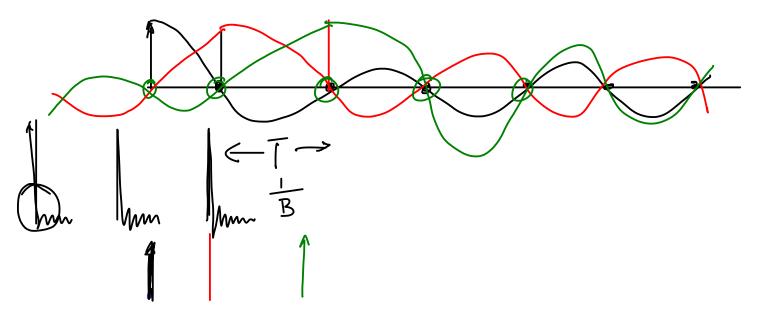
Exercise 1: Draw a square pulse of duration T. Draw the pulse after it has passed through a linear low-pass channel that results in rise and fall times of T/3. Draw the output for an input pulse of the opposite polarity. Use the principle of superposition to draw the output of the channel for a positive input pulse followed by a negative input pulse.



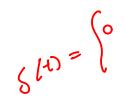


$$\frac{1}{2} + \frac{1}{3} = \frac{3+2}{6}$$





Exercise 2: What is the impulse response of a channel that does not alter its input? Does this impulse response meet the



Nyquist condition? Will it result in ISI?

