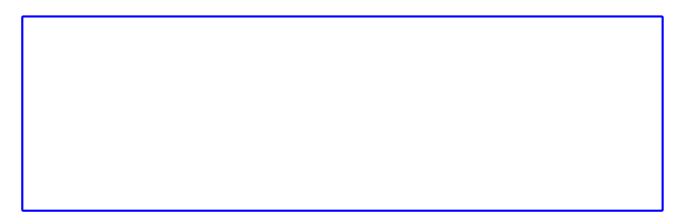
Worksheet 2

Download as a PDF file (https://cpjobling.github.io/eg-247-textbook/worksheets/worksheet2.pdf).

Consider a signal

$$x = f(t) = \begin{cases} 0 : t < -1 \\ t+1 : -1 \le t \le 1 \\ 0 : t > 1 \end{cases}$$

Sketch this signal



Sketch the effect on this signal of applying the following basic signal operations

Amplitude scaling

2f(t)

	0.5f(t)					
Time scaling						
	f(2t)					
	f(0.5t)					

dirroring	-f(t)	
	f(-t)	
	-f(-t)	

ime shifting	- delay and a	Idvance $f(t-1)$	
		f(t+1)	

Exercise

We leave the solution of -2f(-t+2) as an exercise for the reader but note that it involves *amplitude* scaling, amplitude mirroring, time mirroring, and a time shift. Each operation can be performed in sequence in any order.