Worksheet 2

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

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

	0.5	f(t)
Tin	me scaling	
	f(x)	2t)
`		
	f(0)	.5t)

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f(-t)	

$$-f(-t)$$



ime shifti	ng - dela	ay and adva $f(t-1)$	ince	
		C(, . 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.