Worksheet 2

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

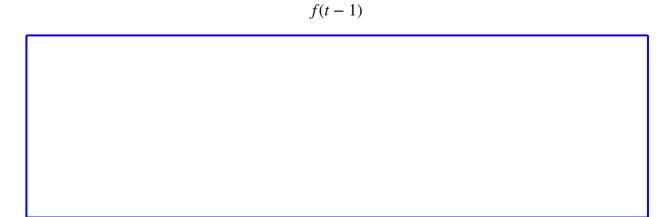
2*f*(*t*)

	0.5f(t)
T:	
H	me scaling $f(2t)$
	f(0.5t)

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 oring
-f(t)
f(-t)
-f(-t)

ining chining acidy and advance	Time	shifting	- delay	and	advance
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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.