Review of Homework Problem from Lesson 1

Consider a signal

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

	$x = f(t) = \begin{cases} 0 : t < -1 \\ t + 1 : -1 \le t \le 1 \\ 0 : t > 1 \end{cases}$
tch this signal	
tch the effect on this sig	gnal of applying the following basic signal operations
nplitude scalin	ıa
	2f(t)
	0.5f(t)

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	f(2t)
	f(0.5t)
Miı	rroring
	-f(t)

f(-t)

-f(-t)	
ay and advance	
f(t-1)	
f(t+1)	
	ay and advance

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.