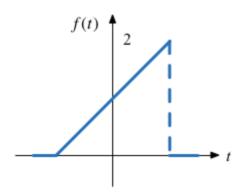
Answers Example 1

Consider a signal

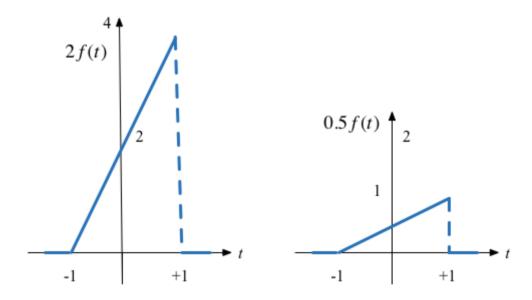
$$x = f(t) = \begin{cases} 0 : t < -1 \\ t+1 : -1 \le t \le 1 \\ 0 : t > 1 \end{cases}$$

Sketch this signal

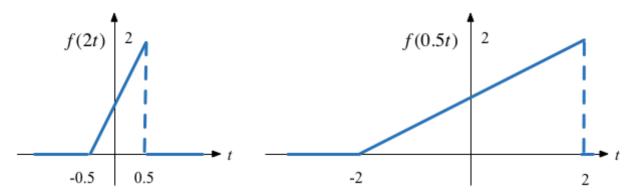


plot the effect on this signal of applying the following basic signal operations

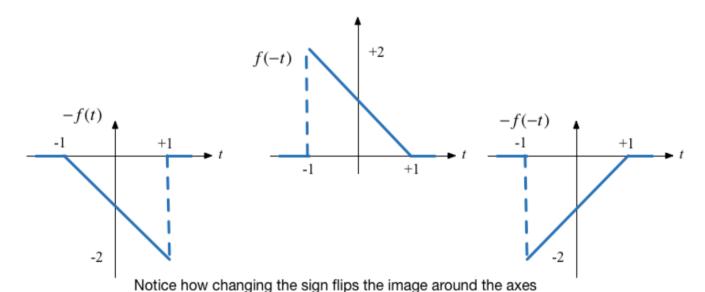
Amplitude scaling



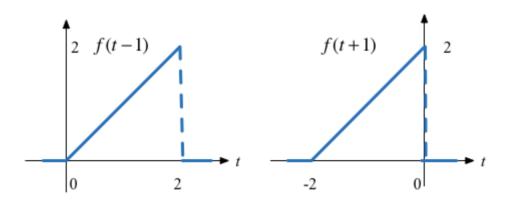
Time scaling



Mirroring



Time shifting - delay 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.