Lesson 1

Copy this page into the *Homework* section of your personal section of the **OneNote Class Notebook** then you can use the *ink feature* (if supported) to sketch your answers.

Homework

Consider the signal $f(t)$

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

which you sketched during lesson 1.

Think about the effect on this signal of applying the following basic signal operations:

- $2f(t)$
- $0.5f(t)$
- $f(2t)$
- $f(0.5t)$
- $-f(t)$
- $f(-t)$
- $-f(-t)$
- $f(t-1)$
- $f(t+1)$
- $-2f(-t+2)$

Sketch the results.

We will go through these at the start of Lesson 2 and you can compare your answers with mine then.