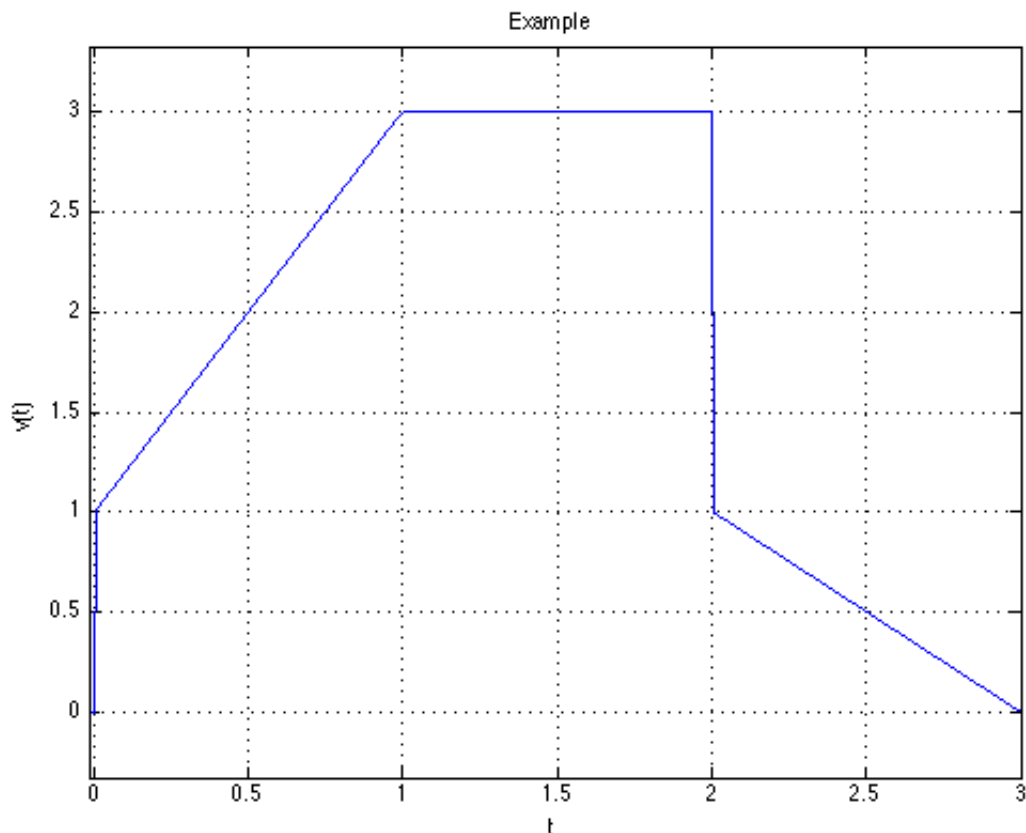


Lesson 2

Homework: Elementary signals

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.

1. Show that the waveform shown below



can be represented by the function

$$v(t) = (2t + 1)u_0(t) - 2(t - 1)u_0(t - 1) - tu_0(t - 2) + (t - 3)u_0(t - 3)$$

2. Do the [end of the chapter exercises (Section 1.7) from the textbook]
(<http://site.ebrary.com/lib/swansea/reader.action?docID=10547416&ppg=17>). Don't look at the answers until you have attempted the problems.