# PROBLEM:

The top part of the figure below shows samples $x[n] = x(nT_s)$ taken with sampling period $T_s = 5$ msec. The samples are plotted at the sample index points n. A signal $y(t)$ is reconstructed from the samples using a D-to-C converter defined by the equation

$$y(t) = \sum_{n=-\infty}^{\infty} x[n]p(t - nT_s)$$

where the D-to-C conversion pulse $p(t)$ is as shown in the bottom part of the figure.

Samples of a signal x[n] = x(nT_s) for T_s = 5 msec

D-to-C Converter Pulse p(t)
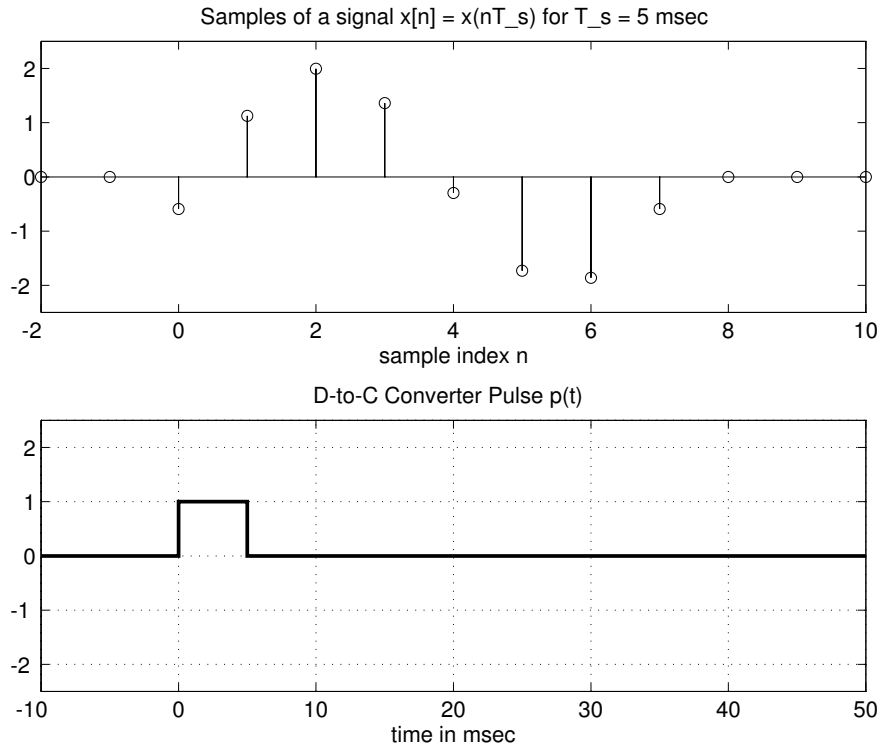
(a) Plot the D-to-C converter output $y(t)$ on the graph in the figure below.

(b) Label the horizontal axis scale of the figure below in terms of the continuous-time variable t.