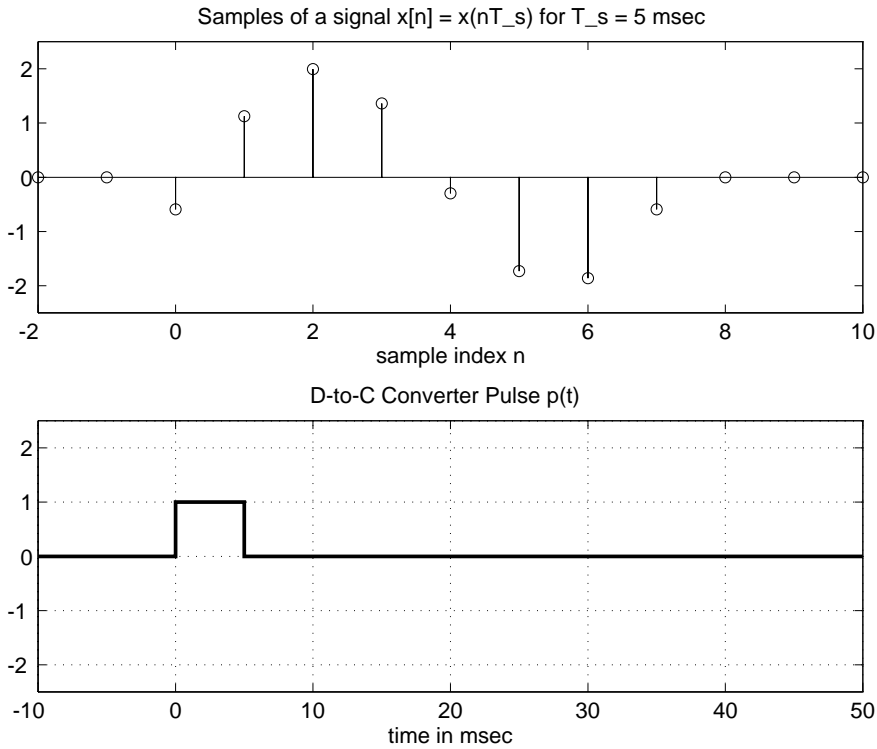


PROBLEM:

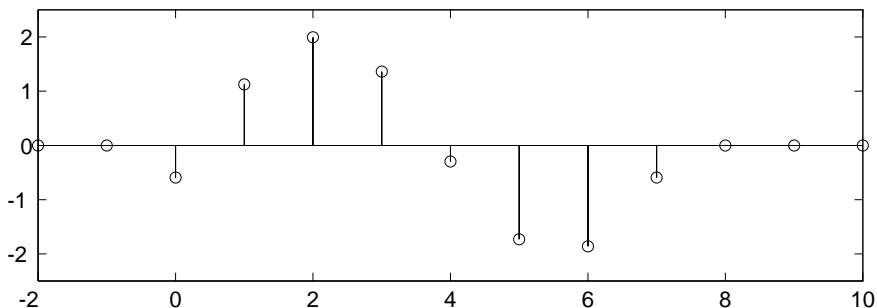
The top part of the figure below shows samples $x[n] = x(nT_s)$ taken with sampling period $T_s = 5$ msec. The samples are plotted at the sample index points n . A signal $y(t)$ is reconstructed from the samples using a D-to-C converter defined by the equation

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

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



- (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 .

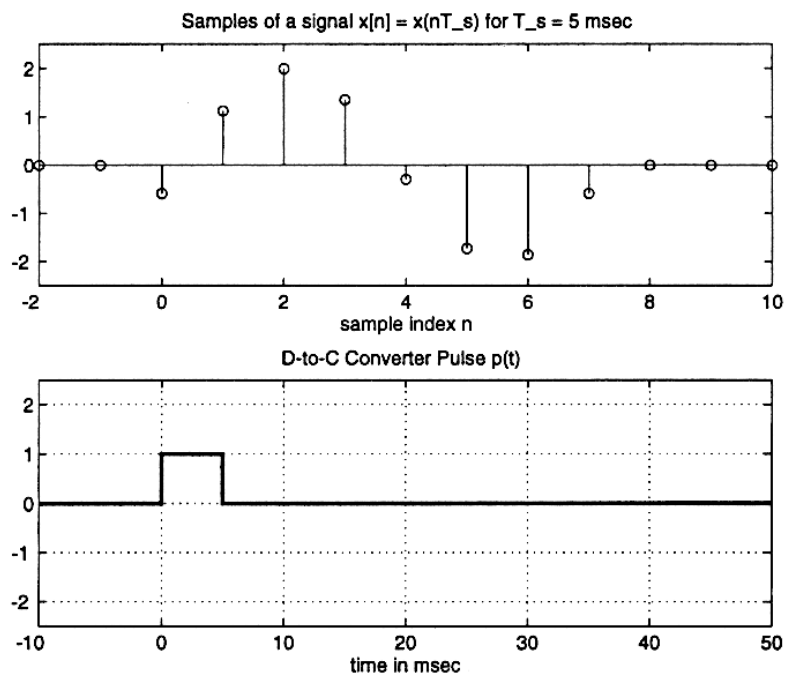




The top part of the figure below shows samples $x[n] = x(nT_s)$ taken with sampling period $T_s = 5$ msec. The samples are plotted at the sample index points n . A signal $y(t)$ is reconstructed from the samples using a D-to-C converter defined by the equation

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

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



- (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 .

