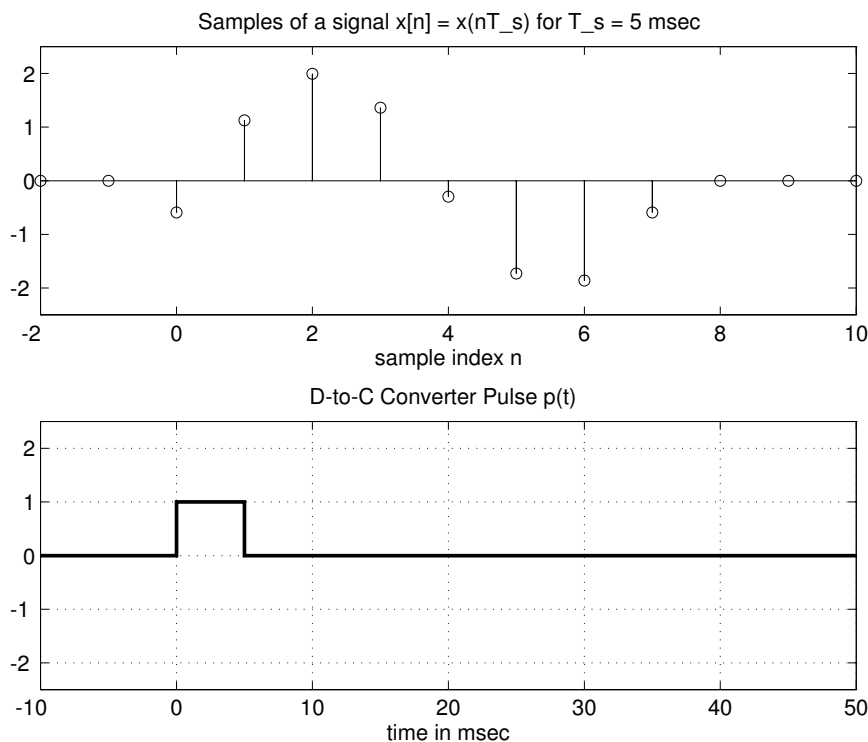


**PROBLEM:**

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-A converter defined by the equation

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

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



- Plot the D-to-A converter output  $y(t)$  as a continuous signal versus the time variable  $t$ . Use the stem plot above as a guide.
- Make sure that the labels on the horizontal axis scale of your plot have the correct values of the continuous-time variable  $t$  in seconds.