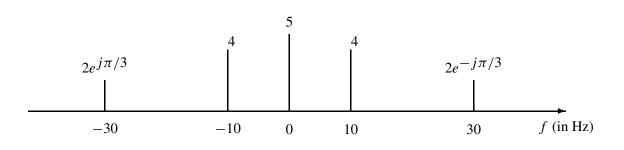
## PROBLEM:

A signal x(t) has the two-sided spectrum representation shown below.



(a) Write an equation for x(t).

 $-\pi$ 

(c) The signal 
$$x(t)$$
 is sampled with sampling frequency  $f_s = 1/T_s = 50$  samples/second to obtain the discrete-time signal  $x[n] = x(nT_s)$ . Write an equation for  $x[n]$  and plot the spectrum of  $x[n]$  for normalized frequencies  $-\pi < \hat{\alpha} < \pi$ 

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