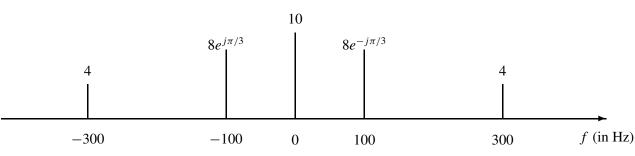
PROBLEM:

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



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

(b) The signal x(t) is sampled with sampling frequency $f_s = 300 = 1/T$ samples/second to obtain the discrete-time signal x[n] = x(nT). Write an equation for x[n] and plot the spectrum of x[n] for normalized frequencies $-\pi \le \hat{\omega} \le \pi$.

0

 $-\pi$

π

 $\hat{\omega}$