PROBLEM:

 $\begin{array}{c|cccc}
 & & & & & & & \\
 & -200\pi & & & & & \\
 & -100\pi & & & & & \\
 & 0 & & & & & \\
 & \omega_1 & & & & 2e^{-j\pi6} & \\
\end{array}$

frequency (ω) complex phasor

$rac{\omega_1}{200\pi}$	26
(a) If $x(t)$ is a real signal, what are X_1, X_{-2}, X_{-2}	and ω_1 ?

(b) Plot the spectrum of this signal as a graph.

The two-sided spectrum of a signal x(t) is given in the following table:

(c) Write an expression for x(t) involving only real numbers and cosine functions.