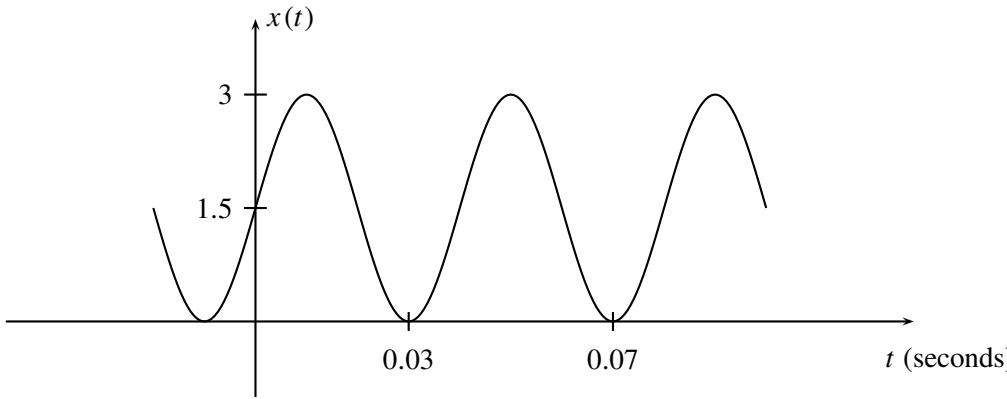
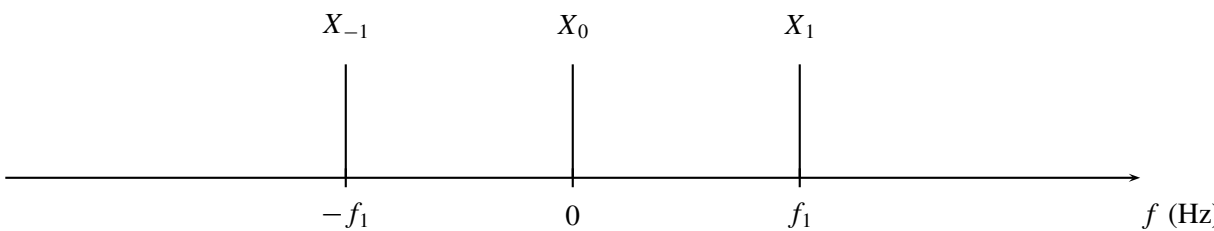
PROBLEM:

A signal $x(t) = A\cos(2\pi f_1 t + \phi)$ is shown in the figure below,



The spectrum of $x(t)$ has the form



Determine the values for f_1, X_0, X_1, and X_{-1}. Note that the frequencies f are given in Hertz.

$f_1 =$	$X_0 =$	$X_1 =$	$X_{-1} =$