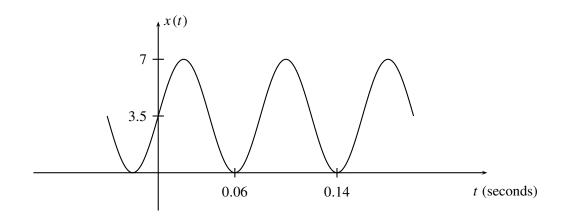
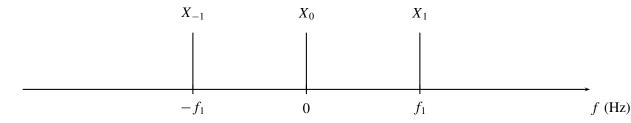
PROBLEM:

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.

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