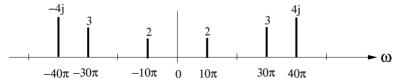
PROBLEM:

Shown in the figure is a spectrum plot for the periodic signal x(t).



(a) Determine the period T_0 of x(t).

$$T_0 =$$

(b) A periodic signal of this type can be represented as a Fourier series of the form

 $x(t) = \sum_{k=0}^{\infty} a_k e^{j\omega_0 kt}.$ If the Fourier series coefficients of x(t) are denoted by a_k , $k = 0, \pm 1, \pm 2, \pm 3, \ldots$, determine which coefficients have non-zero value. List these Fourier series coefficients and their values below.