PROBLEM:

A periodic signal, x(t), is given by

(a) What is the period of x(t)?

A periodic signal,
$$x(t)$$
, is given by

 $x(t) = 1 + 2\cos(300\pi t + \pi/4) + \sin(500\pi t)$

(b) Find the Fourier series coefficients of x(t) for $-6 \le k \le 6$.