PROBLEM:

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

$$x(t) = 2 + \cos(250\pi t - \pi) + 2\sin(750\pi t)$$

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

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