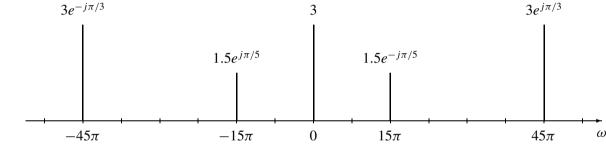
PROBLEM:

The spectrum of a signal x(t) is shown in the following figure:



Note that the frequency axis is radian frequency (ω) not cyclic frequency (f).

(a) Write an equation for x(t) in terms of cosine functions.

(b) This signal is periodic. What is the fundamental frequency and the corresponding period of x(t)?