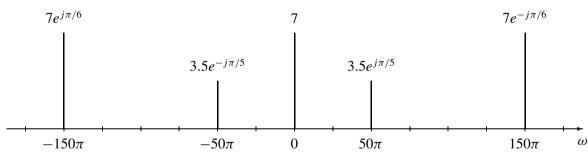
PROBLEM:

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)?