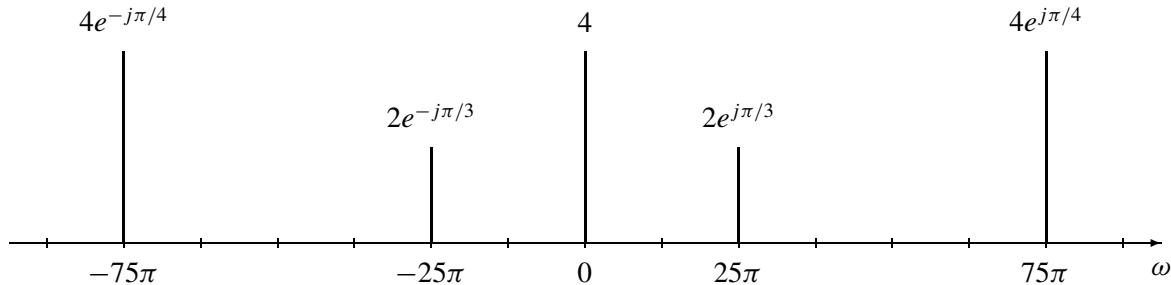## PROBLEM:

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 $x(t)$?