## **PROBLEM:**

## The "spectrum" diagram gives the frequency content of a signal.

## (a) Draw a sketch of the spectrum of x(t) which is "cosine-times-sine"

$$x(t) = \cos(50\pi t) \,\sin(700\pi t)$$

## Label the frequencies and complex amplitudes of each component.

(b) Determine the minimum sampling rate that can be used to sample x(t) without any aliasing.