

### Question #2(b):

if a signal does not change at all, its frequency is zero -----?

### Answer:

⇒ Because two waves at different wavelength and frequency cannot be exact copies of each other differing only by a phase shift. However it is possible for the sum of the two waves to be periodic, then there will be an overall phase for the new periodic signal.

⇒ Phase and frequency are not explicitly measured on a time demands.

⇒ A frequency domain plot shows the relationship between Amplitude and frequency.