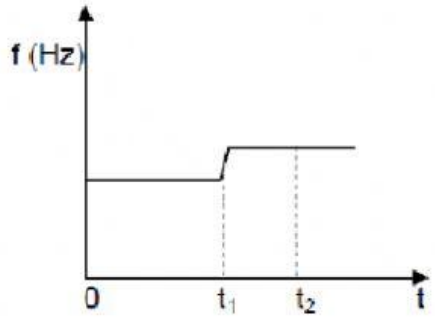
5.

A car sounds its horn whilst travelling at constant velocity along a straight road. At time t = 0 the car is at position **X** as shown below. At time t = t_1 the car moves past a stationary listener **L**. At time t = t_2 the car is at position **Y**.

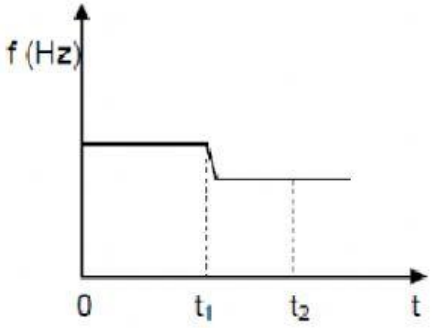


Which ONE of the following graphs best represents the variation of the frequency (pitch) of the horn with time as heard by the listener?

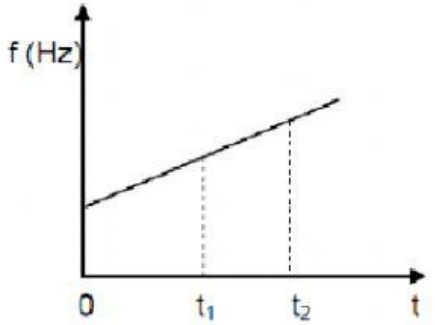
A



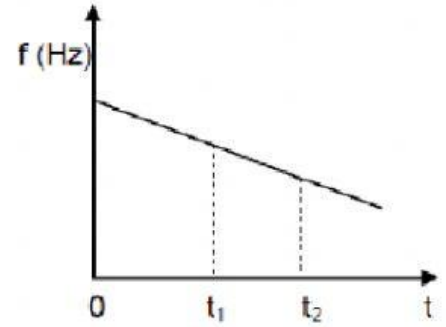
B



C



D



6.

The hooter of a car emits sound of constant frequency as the car moves away from a stationary listener.

Which ONE of the following properties of the sound heard by the listener will **NOT** change?

A Velocity

B Frequency

C Both wavelength and frequency

D Both frequency and loudness

LIVEWORKSHEETS

7.

Astronomers obtained the following spectral lines of an element:

Spectrum of element in a laboratory:



Spectrum of element from a distant star:



The observation confirms that the ...

A star is moving closer towards earth.

B earth is moving towards the star.

C temperature of earth is increasing.

D universe is expanding.

Homework:

Pg 356 Q8 and Q6

Pg 357 Q7 and Q6

Pg 358 Q 6 and Q7

Pg 359 Q6 and Q8

Pg 360 Q7 and 3.3

Pg 361 Q8 (both) – these are the trickier questions. I will make a little video of these 2 when you are done ☺

LIVEWORKSHEETS