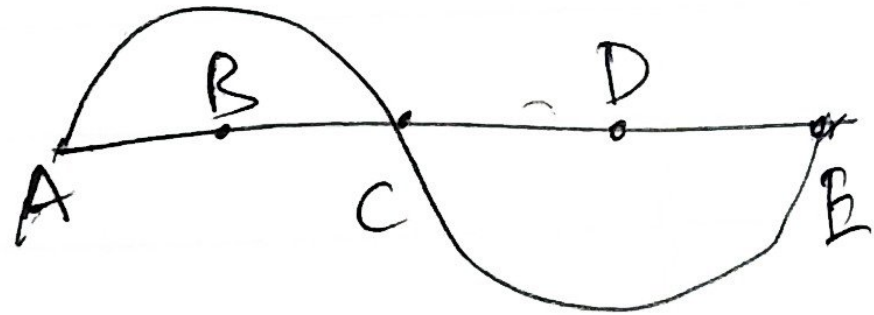


HW

12/1/22

Home Assignment

- 1) Note is a sound
(a) of mixture of several frequencies
- 2) Sound travels in air if
(c) disturbance moves
- 3) When we change feeble sound to loud sound we increase its
(b) Amplitude
- 4) In the curve, half the wavelength is
(b) BD



5) Sound travels with a speed of about 330 m/s. What is the wavelength of sound whose frequency is 550 Hz?

$$v = 330 \text{ m/s}$$

$$f = 550 \text{ Hz}$$

$$\lambda = ?$$

$$v = f \lambda \Rightarrow 330 = 550 \lambda$$

$$\Rightarrow \lambda = \frac{330}{550}$$

$$\Rightarrow \lambda = \frac{3}{5} = 0.6 \text{ m}$$

(c) 0.6 m.

6) One hertz is equivalent to -
(a) One cycle per sec.