

Physics

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 (Chapter 14) (Waves) (Exercises)
 (Class 11)

Question 14.9:

For the wave described in Exercise 15.8, plot the displacement (y) versus (t) graphs for $x = 0, 2$ and 4 cm. What are the shapes of these graphs? In which aspects does the oscillatory motion in travelling wave differ from one point to another: amplitude, frequency or phase?

Answer 14.9:

All the waves have different phases. The given transverse harmonic wave is:

$$y(x, t) = 3.0 \sin\left(36t + 0.018x + \frac{\pi}{4}\right) \quad \text{--(i)}$$

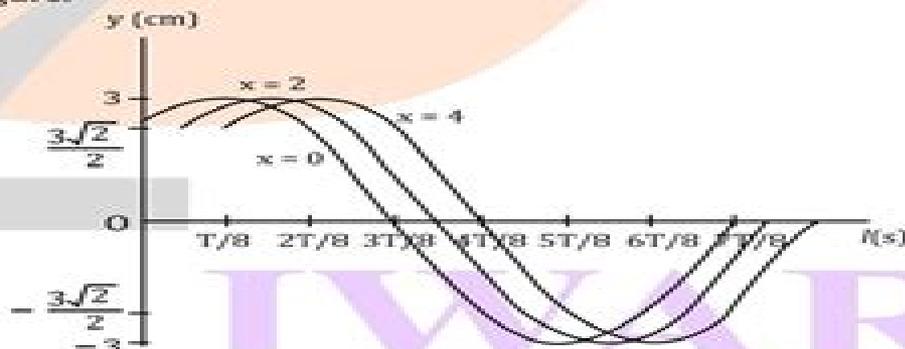
For $x = 0$, the equation reduces to:

$$y(0, t) = 3.0 \sin\left(36t + \frac{\pi}{4}\right). \text{ Also, } \omega = \frac{2\pi}{T} = 36 \text{ rad/s}^{-1} \therefore T = \frac{\pi}{8} \text{ s}$$

Now, plotting y vs. t graphs using the different values of t , as listed in the given table.

t (s)	0	$\frac{T}{8}$	$\frac{2T}{8}$	$\frac{3T}{8}$	$\frac{4T}{8}$	$\frac{5T}{8}$	$\frac{6T}{8}$	$\frac{7T}{8}$
y (cm)	$\frac{3\sqrt{2}}{2}$	3	$\frac{3\sqrt{2}}{2}$	0	$-\frac{3\sqrt{2}}{2}$	-3	$-\frac{3\sqrt{2}}{2}$	0

For $x = 0, x = 2$, and $x = 4$, the phases of the three waves will get changed. This is because amplitude and frequency are invariant for any change in x . The $y - t$ plots of the three waves are shown in the given figure.



Question 14.10:

For the travelling harmonic wave $y(x, t) = 2.0 \cos 2\pi (10t - 0.0080x + 0.35)$, where x and y are in cm and t in s. Calculate the phase difference between oscillatory motion of two points separated by a distance of

- (a) 4 m,
- (b) 0.5 m,
- (c) $\lambda/2$,
- (d) $3\lambda/4$

Answer 14.10:

Equation for a travelling harmonic wave is given as: $y(x, t) = 2.0 \cos 2\pi (10t - 0.0080x + 0.35)$
 $= 2.0 \cos (20\pi t - 0.016\pi x + 0.70\pi)$

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web solution fairly straightforward energy is power times time electric power is voltage times current energy is a scalar so just add up the parts of the cycle and double each to get the total $e = 2 \cdot 1825 \text{ V} \cdot 7.5 \text{ A} \cdot 30 \text{ s} = 240 \text{ V} \cdot 1.5 \text{ A} \cdot 60 \text{ s} = 864 \text{ 000 J}$

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web determine nicholas potential energy at the top of the slide b determine nicholas s kinetic energy at the top of the slide c assuming negligible losses of energy between the top of the slide and his approach to the bottom of the slide h 0 m determine nicholas s total mechanical energy as he arrives at the bottom of the slide d

power problems and solutions physics - Mar 04 2022

web 1 a 50 kg person runs up the stairs 10 meters high in 2 minutes acceleration due to gravity g is 10 m/s^2 determine the power known mass m 50 kg height h 10 meters acceleration due to gravity g 10 m/s^2 time interval t 2 minute 2 60 120 seconds wanted power P solution formula of power $P = \frac{W}{t}$