

# Physics

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(Chapter 13) (Oscillations) (Exercises)

(Class 11)

(c) At the maximum compressed position, the mass is toward the extreme left.

Hence, the initial phase is  $\frac{3\pi}{2}$ .

$$x = A \sin\left(\omega t + \frac{3\pi}{2}\right) = 2 \sin\left(20t + \frac{3\pi}{2}\right) = -2 \cos 20t$$

The functions have the same frequency  $\left(\frac{20}{2\pi} \text{ Hz}\right)$  and amplitude (2 cm), but different initial phases

$$\left(0, \frac{\pi}{2}, \frac{3\pi}{2}\right).$$

### Question 13.11:

Figures 13.20 correspond to two circular motions. The radius of the circle, the period of revolution, the initial position, and the sense of revolution (i.e. clockwise or anti-clockwise) are indicated on each figure.

Obtain the corresponding simple harmonic motions of the  $x$ -projection of the radius vector of the revolving particle P, in each case.

### Answer 13.11:

Time period,  $T = 2 \text{ s}$  and Amplitude,  $A = 3 \text{ cm}$

At time,  $t = 0$ , the radius vector OP makes an angle  $\frac{\pi}{2}$  with the positive  $x$ -axis, i.e., phase angle  $\phi = +\frac{\pi}{2}$

Therefore, the equation of simple harmonic motion for the  $x$ -projection of OP, at time  $t$ , is given by the displacement equation:

$$x = A \cos\left[\frac{2\pi t}{T} + \phi\right] = 3 \cos\left(\frac{2\pi t}{2} + \frac{\pi}{2}\right) = -3 \sin\left(\frac{2\pi t}{2}\right)$$

$$\therefore x = -3 \sin \pi t \text{ cm}$$

Time period,  $T = 4 \text{ s}$  and Amplitude,  $a = 2 \text{ m}$

At time  $t = 0$ , OP makes an angle  $\pi$  with the  $x$ -axis, in the anticlockwise direction.

Hence, phase angle,  $\Phi = +\pi$

Therefore, the equation of simple harmonic motion for the  $x$ -projection of OP, at time  $t$ , is given as:

$$x = a \cos\left(\frac{2\pi t}{T} + \phi\right) = 2 \cos\left(\frac{2\pi t}{4} + \pi\right) \Rightarrow x = -2 \cos\left(\frac{\pi t}{2}\right) \text{ m}$$

### Question 13.12:

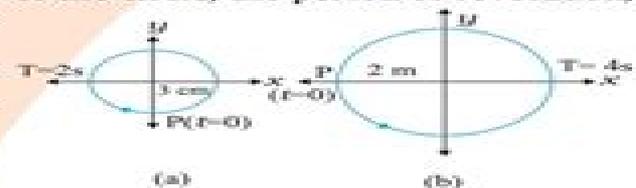
Plot the corresponding reference circle for each of the following simple harmonic motions. Indicate the initial ( $t = 0$ ) position of the particle, the radius of the circle, and the angular speed of the rotating particle. For simplicity, the sense of rotation may be fixed to be anticlockwise in every case: ( $x$  is in cm and  $t$  is in s).

(a)  $x = -2 \sin(3t + \pi/3)$

(b)  $x = \cos(\pi/6 - t)$

(c)  $x = 3 \sin(2\pi t + \pi/4)$

(d)  $x = 2 \cos \pi t$



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**S Marginson**



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