

2 D Motion

Set 1

1 Velocity vector of a particle is given as $\mathbf{v} = 4t\mathbf{i} + 3\mathbf{j}$. At $t = 0$, position of the particle is given as $\mathbf{r}_0 = 2\mathbf{j}$. Find the position vector of the particle at $t = 2$ s.

(a) $\mathbf{r} = 8\mathbf{i} + 4\mathbf{j}$ (b) $\mathbf{r} = 4\mathbf{i} + 4\mathbf{j}$ (c) $\mathbf{r} = 8\mathbf{i} + 8\mathbf{j}$ (d) $\mathbf{r} = 4\mathbf{i} + 8\mathbf{j}$

2 A particle moves in the xy -plane and its coordinates are given by $x = k \sin \omega t$ and $y = k(1 - \cos \omega t)$, where k and ω are constants. What is the magnitude of acceleration of the particle?

(a) Zero (b) $k\omega^2$ (c) $k\omega^2$ (d) $k^2\omega^2$

3 A point moves in the xy -plane according to the law $x = 3t$ and $y = 3t(1 - \frac{t}{4})$ where x, y are in metre and t is in second. What is the time (in second) after which velocity makes an angle of $\frac{\pi}{2}$ with the acceleration?

4 From point A located on a highway (figure) one has to get by car as soon as possible to point B located in the field at a distance $l = 3\sqrt{2}$ km from the highway. It is known that the car moves in the field 3 times slower than on the highway.

At what distance (in km) from point D one must turn off the highway?



5 A particle projected from the origin ($x = y = 0$) moves in xy -plane, so that its velocity is $\mathbf{v} = (2\mathbf{i} + 4x\mathbf{j})$ m/s, when it is at the point (x, y) m. What is the value of y when $x = 3$?

6 A point moves in the xy -plane according to the law $x = \alpha t$ and $y = \alpha t(1 - \beta t)$, where α and β are positive constants. The time after which the velocity makes an angle $\frac{\pi}{4}$ with the acceleration is

(a) $\frac{1}{\alpha}$ (b) $\frac{1}{\beta}$ (c) $\frac{2}{\beta}$ (d) $\frac{2}{\alpha}$

7 A particle moves uniformly with speed v along the parabolic path $y = kx^2$, where k is a positive constant. The acceleration of the particle at $x = 0$ is given by

(a) $2kv^2$ (b) kv^2 (c) $\frac{1}{2}kv^2$ (d) $2kv$

2d Motion Extra Practice Problems With Answers

Annelies Wilder-Smith

2d Motion Extra Practice Problems With Answers:

Introductory Physics Michael Antosh,2023-02-16 Physics describes how motion works in everyday life Clothes washers and rolling pins are undergoing rotational motion A flying bird uses forces Tossing a set of keys involves equations that describe motion kinematics Two people bumping into each other while cooking in a kitchen involves linear momentum This textbook covers topics related to units kinematics forces energy momentum circular and rotational motion Newton s general equation for gravity and simple harmonic motion things that go back and forth A math review is also included with a focus on algebra and trigonometry The goal of this textbook is to present a clear introduction to these topics in small pieces with examples that readers can relate to Each topic comes with a short summary a fully solved example and practice problems Full solutions are included for over 400 problems This book is a very useful study guide for students in introductory physics courses including high school and college students in an algebra based introductory physics course and even students in an introductory calculus level course It can also be used as a standalone textbook in courses where derivations are not emphasized Key features Organizes a difficult subject into short and clearly written sections Can be used alongside any introductory physics textbook Presents clear examples for every problem type discussed in the textbook Michael Antosh teaches physics at the University of Rhode Island USA He obtained a Ph D in physics from Brown University **1997**

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