

Chapter 8 Rotational Motion Acceleration and Circular Motion

Newton's 2nd law, $a = F/m$, tells us that net force and its corresponding acceleration are always in the same direction. But force and acceleration vectors are not always in the direction of velocity (another vector).

1. You're in a car at a traffic light. The light turns green and the driver "steps on the gas." The sketch shows the top view of the car. Note the direction of the velocity and acceleration vectors.



- Your body tends to lurch [forward] [not at all] [backward].
- The car accelerates [forward] [not at all] [backward].
- The force on the car acts [forward] [not at all] [backward].

2. You're driving along and approach a stop sign. The driver steps on the brakes. The sketch shows the top view of the car. Draw vectors for velocity and acceleration.

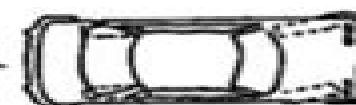


- Your body tends to lurch [forward] [not at all] [backward].
- The car accelerates [forward] [not at all] [backward].

3. You continue driving, and round a sharp curve to the left at constant speed.

- Your body tends to lean [inward] [not at all] [outward].
- The direction of the car's acceleration is [inward] [not at all] [outward].
- The force on the car acts [inward] [not at all] [outward].

Draw vectors for velocity and acceleration of the car.



4. In general, the directions of lurch and acceleration, and therefore the directions of lurch and force are [the same] [not relate] [opposite].



5. The whirling stone's direction of motion keeps changing.

- If it moves faster, its direction changes [faster] [slower].
- This indicates that as speed increases, acceleration [increases] [decreases] [stays the same].

6. Like Question 5, consider whirling the stone on a shorter string—that is, of smaller radius.

- For a given speed, the rate that the stone changes direction is [less] [more] [the same].
- This indicates that as the radius decreases, acceleration [increases] [decreases] [stays the same].



Conceptual Physics Practice Page Answers Rotational Motion

Jennifer Bond Hickman



Conceptual Physics Practice Page Answers Rotational Motion:

Instructor's Manual [to Accompany] Conceptual Physics, Eighth Ed Paul G. Hewitt, 1998 Conceptual Physics Tenth Edition helps readers connect physics to their everyday experiences and the world around them with additional help on solving more mathematical problems Hewitt's text is famous for engaging readers with analogies and imagery from real world situations that build a strong conceptual understanding of physical principles ranging from classical mechanics to modern physics With this strong foundation readers are better equipped to understand the equations and formulas of physics and motivated to explore the thought provoking exercises and fun projects in each chapter Included in the package is the workbook Mechanics Properties of Matter Heat Sound Electricity and Magnetism Light Atomic and Nuclear Physics Relativity For all readers interested in conceptual physics

CIRCULAR MOTION Dr. Sanjay Kumar, 2020-10-13 This text book is primarily intended for students who are preparing for the entrance tests of IIT JEE NEET AIIMS and other esteemed colleges in same fields This text is equally useful to the students preparing for their school exams Our main goals in writing this text book are to present the basic concepts and principles of physics that students need to know for their competitive exams 1 to provide a balance of quantitative reasoning and conceptual understanding with special attention to concepts that have been causing difficulties to student in understanding the concepts 2 to develop students problem solving skills and confidence in a systematic manner 3 to motivate students by integrating real world examples that build upon their everyday experiences Main Features of the Book 1 Every concept is up to the mark and it is given in student friendly language with various solved problems The solution is provided with problem solving approach and discussion 2 Checkpoint questions have been added to applicable sections of the text to allow students to pause and test their understanding of the concept explored within the current section The answers and solutions to the Checkpoints are given in answer keys at the end of the chapter so that students can confirm their knowledge without jumping too quickly to the provided answer 3 Special attention is given to all tricky topics like centripetal and tangential acceleration uniform circular motion vs projectile motion relative angular velocity centripetal and centrifugal force unbanked and banked curves motion in a vertical circle Coriolis force optional effect of rotation of earth on apparent weight and the physics of artificial gravity so that student can easily solve them with fun 4 To test the understanding level of students multiple choice questions conceptual questions practice problems with previous years JEE Main and Advanced problems are provided at the end of the whole discussion Number of dots indicates level of problem difficulty Straightforward problems basic level are indicated by single dot intermediate problems JEE mains and NEET level are indicated by double dots whereas challenging problems advanced level are indicated by three dots Answer keys with hints and solutions are provided at the end of the chapter

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