

4

Motion in Two Dimensions

CHAPTER OUTLINE

- 4.1 The Position, Velocity, and Acceleration Vectors
- 4.2 Two-Dimensional Motion with Constant Acceleration
- 4.3 Projectile Motion
- 4.4 Uniform Circular Motion
- 4.5 Tangential and Radial Acceleration
- 4.6 Relative Velocity and Relative Acceleration

ANSWERS TO QUESTIONS

- Q 4.1** Yes. An object moving in uniform circular motion moves at a constant speed, but changes its direction of motion. An object cannot accelerate if its velocity is constant.
- Q 4.2** No, you cannot determine the instantaneous velocity. Yes, you can determine the average velocity. The points could be widely separated. In this case, you can only determine the average velocity, which is

$$\bar{\mathbf{v}} = \frac{\Delta \mathbf{x}}{\Delta t}$$



Q 4.4 (a) $10\hat{j}$ m/s

(b) $-8.50\hat{j}$ m/s²

- Q 4.5** The easiest way to approach this problem is to determine acceleration first, velocity second and finally position.
- Vertical: In free flight, $a_y = -g$. At the top of a projectile's trajectory, $v_y = 0$. Using this, the maximum height can be found using $v_y^2 = v_{y0}^2 + 2a_y(y_f - y_0)$.
- Horizontal: $a_x = 0$, so v_x is always the same. To find the horizontal position at maximum height, one needs the flight time, t . Using the vertical information found previously, the flight time can be found using $v_{yf} = v_{y0} + a_y t$. The horizontal position is $x_f = v_{x0} t$.
- If air resistance is taken into account, then the acceleration in both the x and y -directions would have an additional term due to the drag.

Q 4.6 A parabola.

Motion In Two Dimensions Study Guide Answers

Morton M. Sternheim



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Whispering the Techniques of Language: An Mental Journey through **Motion In Two Dimensions Study Guide Answers**

In a digitally-driven earth wherever displays reign supreme and quick communication drowns out the subtleties of language, the profound strategies and mental nuances hidden within phrases usually move unheard. Yet, located within the pages of **Motion In Two Dimensions Study Guide Answers** a charming fictional prize pulsating with fresh emotions, lies a fantastic quest waiting to be undertaken. Penned by a talented wordsmith, this wonderful opus encourages readers on an introspective journey, softly unraveling the veiled truths and profound impact resonating within the cloth of each word. Within the psychological depths with this touching evaluation, we can embark upon a honest exploration of the book is primary subjects, dissect their charming writing model, and yield to the strong resonance it evokes deep within the recesses of readers hearts.

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