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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) $10\hat{i}$ 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

Raymond A. Serway



Motion In Two Dimensions Study Guide Answers:

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Reviewing **Motion In Two Dimensions Study Guide Answers**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Motion In Two Dimensions Study Guide Answers**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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