Physics Questions

Translational Motion

1. Which of the following numbers is given to four significant figures?

- a. 0.00020
- Ь. 0.0020
- c. 2.000
- d. 2000

2. An auto travels at the rate of 25 km/h for 4.0 minutes, then at 50 km/h for 8.0 minutes, and finally at 20 km/h for 2.0 minutes. Find (a) the total distance covered in km and (b) the average speed for the complete trip in m/s.

- a. (a) 540 km, (b) 642 m/s
- b. (a) 12.5 km, (b) 38.6 m/s
- c. (a) 10.7 km, (b) 126 m/s
- d. (a) 9.0 km, (b) 10.7 m/s

3. A body with initial velocity 8.0 m/s moves along a straight line with constant acceleration and travels 640 m in 40 s. For the 40 s interval, find (a) the average velocity, (b) the final velocity, and (c) the acceleration.

- a. (a) 4.0 m/s, (b) 8.0 m/s, (c) 0.6 m/s²
- b. (a) 24 m/s, (b) 16 m/s, (c) 0.20 m/s²
- c. (a) 16 m/s, (b) 24 m/s, (c) 0.40 m/s²
- d. (a) 0.4 m/s, (b) 160 m/s, (c) 16 m/s²

4. A bottle dropped from a balloon reaches the ground in 20 s. Determine the height of the balloon if (a) it was at rest in the air and (b) it was ascending with a speed of 50 m/s when the bottle was dropped.

- a. (a) 98 km, (b) 2960 km
- b. (a) 196 km, (b) 1960 km
- c. (a) 0.49 km, (b) 1000 km
- d. (a) 2.0 km, (b) 0.96 km

5. A bug starts at point A, crawls 8.0 cm east, then 5.0 cm south, 3.0 cm west, and 4.0 cm north to point B. (a) How far north and east is B from A? (b) Find the displacement from A to B both graphically and algebraically.

- a. (a) 5.0 cm EAST, 1.0 cm SOUTH, (b) 5.10 cm 11.3° SOUTH OF EAST
- b. (a) 11.0 cm EAST, 1.0 cm SOUTH, (b) 11.1 cm 5.2° SOUTH OF EAST
- c. (a) 5.0 cm EAST, 1.0 cm NORTH, (b) 5.1 cm 11.3° NORTH OF EAST
- d. (a) 5.0 cm EAST, 9.0 cm SOUTH, (b) 10.1 cm 60.9° SOUTH OF EAST

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Victor M. Corman

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- 1. Understanding the eBook Mcat Physics Practice Problems
 - The Rise of Digital Reading Mcat Physics Practice Problems
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Mcat Physics Practice Problems
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mcat Physics Practice Problems
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Mcat Physics Practice Problems
 - Personalized Recommendations
 - Mcat Physics Practice Problems User Reviews and Ratings
 - Mcat Physics Practice Problems and Bestseller Lists
- 5. Accessing Mcat Physics Practice Problems Free and Paid eBooks
 - Mcat Physics Practice Problems Public Domain eBooks
 - Mcat Physics Practice Problems eBook Subscription Services
 - Mcat Physics Practice Problems Budget-Friendly Options

- 6. Navigating Mcat Physics Practice Problems eBook Formats
 - ∘ ePub, PDF, MOBI, and More
 - Mcat Physics Practice Problems Compatibility with Devices
 - Mcat Physics Practice Problems Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mcat Physics Practice Problems
 - Highlighting and Note-Taking Mcat Physics Practice Problems
 - Interactive Elements Mcat Physics Practice Problems
- 8. Staying Engaged with Mcat Physics Practice Problems
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mcat Physics Practice Problems
- 9. Balancing eBooks and Physical Books Mcat Physics Practice Problems
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mcat Physics Practice Problems
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mcat Physics Practice Problems
 - Setting Reading Goals Mcat Physics Practice Problems
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mcat Physics Practice Problems
 - Fact-Checking eBook Content of Mcat Physics Practice Problems
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements

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