

Analyze

1. See Data Table.
2. See Data Table.
3. See Data Table. Sample Calculation for Pluto: $e = 4/16 = 0.25$
4. See Data Table.
5. Both foci are at the center.
6. It is very close to being a circle.
7. The comet. It looks more flattened out than the other orbits.

Conclude and Apply

1. Yes, the planets and comet travel in elliptical orbits.
2. Since the eccentricity of Earth is so small, Kepler might not have concluded that planets have elliptical orbits.
3. It travels fastest at perihelion. According to Kepler's second law, equal areas are swept out in equal time. Since there is less area available at perihelion, the planet must move faster.

$$4. \frac{v_P}{v_A} = \frac{A}{P} = \frac{10.0}{6.0} = \frac{1.7}{1}$$

5. $v_A =$ minimum velocity
 $= 3.7 \text{ km/s}$
 $v_P = 1.7 \times v_A$
 $= 1.7 \times 3.7 \text{ km/s}$
 $= 6.3 \text{ km/s}$

Going Further

1. Collect data using dates of location of a planet. Use areas and dates to confirm the second law.
2. In order to show the third law, a computer model would have a planet actually moving so that periods and distances could be measured.

Real-World Physics

Students can research elliptical orbits of satellites. Encourage the students to pick one or two satellites and, if possible, plot orbit data to determine the path that each satellite takes.

Study Guide**Vocabulary Review**

1. inertial mass
2. Kepler's second law
3. gravitational mass
4. gravitational field
5. Newton's law of universal gravitation

Section 7-1**Planetary Motion and Gravitation**

1. Copernicus
2. Brahe
3. Brahe
4. Kepler
5. Newton
6. Kepler
7. Newton
8. Kepler
9. third
10. first
11. first
12. third
13. second
14. $t_2 - t_1 = t_4 - t_3$
15. planet B's average distance from the Sun
16. It is least at point 3 and greatest at point 1.
17. The magnitude of the force at point 3 is $\frac{1}{36}F$
18. $r_B = \sqrt{\frac{T_B^2 r_A^3}{T_A^2}}$
19. $2F$
20. $\frac{1}{4}F$
21. $6F$
22. $4F$
23. $4F$
24. the planet's mean distance from the Sun as well as the mass of the Sun

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David Stetser



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Table of Contents Chapter 9 Study Guide Physics Principles And Problems Answers

1. Understanding the eBook Chapter 9 Study Guide Physics Principles And Problems Answers
 - The Rise of Digital Reading Chapter 9 Study Guide Physics Principles And Problems Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 9 Study Guide Physics Principles And Problems Answers
 - 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 Chapter 9 Study Guide Physics Principles And Problems Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 9 Study Guide Physics Principles And Problems Answers
 - Personalized Recommendations

Chapter 9 Study Guide Physics Principles And Problems Answers

- Chapter 9 Study Guide Physics Principles And Problems Answers User Reviews and Ratings
- Chapter 9 Study Guide Physics Principles And Problems Answers and Bestseller Lists
- 5. Accessing Chapter 9 Study Guide Physics Principles And Problems Answers Free and Paid eBooks
 - Chapter 9 Study Guide Physics Principles And Problems Answers Public Domain eBooks
 - Chapter 9 Study Guide Physics Principles And Problems Answers eBook Subscription Services
 - Chapter 9 Study Guide Physics Principles And Problems Answers Budget-Friendly Options
- 6. Navigating Chapter 9 Study Guide Physics Principles And Problems Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Chapter 9 Study Guide Physics Principles And Problems Answers Compatibility with Devices
 - Chapter 9 Study Guide Physics Principles And Problems Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 9 Study Guide Physics Principles And Problems Answers
 - Highlighting and Note-Taking Chapter 9 Study Guide Physics Principles And Problems Answers
 - Interactive Elements Chapter 9 Study Guide Physics Principles And Problems Answers
- 8. Staying Engaged with Chapter 9 Study Guide Physics Principles And Problems Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 9 Study Guide Physics Principles And Problems Answers
- 9. Balancing eBooks and Physical Books Chapter 9 Study Guide Physics Principles And Problems Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter 9 Study Guide Physics Principles And Problems Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Chapter 9 Study Guide Physics Principles And Problems Answers
 - Setting Reading Goals Chapter 9 Study Guide Physics Principles And Problems Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chapter 9 Study Guide Physics Principles And Problems Answers
 - Fact-Checking eBook Content of Chapter 9 Study Guide Physics Principles And Problems Answers

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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