

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

1. Understanding the eBook Chapter 9 Physics Principles And Problems Study Guide Answers
 - The Rise of Digital Reading Chapter 9 Physics Principles And Problems Study Guide Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 9 Physics Principles And Problems Study Guide 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 Physics Principles And Problems Study Guide Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 9 Physics Principles And Problems Study Guide Answers
 - Personalized Recommendations
 - Chapter 9 Physics Principles And Problems Study Guide Answers User Reviews and Ratings
 - Chapter 9 Physics Principles And Problems Study Guide Answers and Bestseller Lists
5. Accessing Chapter 9 Physics Principles And Problems Study Guide Answers Free and Paid eBooks

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