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 then 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
   $= 3.7$ km/s
   $v_P = 1.7 \times v_A$
   $= 1.7 \times 3.7$ km/s
   $= 6.3$ 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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1. Understanding the eBook Physics Principles And Problems Supplemental Answer Key Chapter 7
    - The Rise of Digital Reading Physics Principles And Problems Supplemental Answer Key Chapter 7
    - Advantages of eBooks Over Traditional Books
2. Identifying Physics Principles And Problems Supplemental Answer Key Chapter 7
    - 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 Physics Principles And Problems Supplemental Answer Key Chapter 7
    - User-Friendly Interface
4. Exploring eBook Recommendations from Physics Principles And Problems Supplemental Answer Key Chapter 7
    - Personalized Recommendations
    - Physics Principles And Problems Supplemental Answer Key Chapter 7 User Reviews and Ratings
    - Physics Principles And Problems Supplemental Answer Key Chapter 7 and Bestseller Lists
5. Accessing Physics Principles And Problems Supplemental Answer Key Chapter 7 Free and Paid eBooks
    - Physics Principles And Problems Supplemental Answer Key Chapter 7 Public Domain eBooks
    - Physics Principles And Problems Supplemental Answer Key Chapter 7 eBook Subscription Services
    - Physics Principles And Problems Supplemental Answer Key Chapter 7 Budget-Friendly Options

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