

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

Study Guide Physics Principles And Problems Key

Darcy West



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Table of Contents Study Guide Physics Principles And Problems Key

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

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