

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

Answers For Physics Principles And Problems

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Web-Based Engineering Education:
Critical Design and Effective Tools Russell, Donna,Haghi, A.K.,2010-06-30 Rapid advances in computer technology and the internet have created new opportunities for delivering instruction and revolutionizing the learning environment This development has been accelerated by the significant reduction in cost of the Internet infrastructure and the easy accessibility of the World Wide Web This book evaluates the usefulness of advanced learning systems in delivering instructions in a virtual academic environment for different engineering sectors It aims at providing a deep probe into the most relevant issues in engineering education and digital learning and offers a survey of how digital engineering education has developed where it stands now how research in this area has progressed and what the prospects are for the future

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Study Guide to Accompany Physics: Principles and Insights Ira Maximilian Freeman,1973

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Table of Contents Answers For Physics Principles And Problems

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

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