

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 To Assessment Physics Principles Problems

S Marginson



Answers To Assessment Physics Principles Problems:

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Table of Contents Answers To Assessment Physics Principles Problems

1. Understanding the eBook Answers To Assessment Physics Principles Problems
 - The Rise of Digital Reading Answers To Assessment Physics Principles Problems
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers To Assessment Physics Principles 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 To Assessment Physics Principles Problems
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers To Assessment Physics Principles Problems
 - Personalized Recommendations
 - Answers To Assessment Physics Principles Problems User Reviews and Ratings
 - Answers To Assessment Physics Principles Problems and Bestseller Lists
5. Accessing Answers To Assessment Physics Principles Problems Free and Paid eBooks
 - Answers To Assessment Physics Principles Problems Public Domain eBooks
 - Answers To Assessment Physics Principles Problems eBook Subscription Services
 - Answers To Assessment Physics Principles Problems Budget-Friendly Options
6. Navigating Answers To Assessment Physics Principles Problems eBook Formats
 - ePub, PDF, MOBI, and More
 - Answers To Assessment Physics Principles Problems Compatibility with Devices
 - Answers To Assessment Physics Principles Problems Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answers To Assessment Physics Principles Problems
 - Highlighting and Note-Taking Answers To Assessment Physics Principles Problems
 - Interactive Elements Answers To Assessment Physics Principles Problems
8. Staying Engaged with Answers To Assessment Physics Principles Problems

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answers To Assessment Physics Principles Problems
9. Balancing eBooks and Physical Books Answers To Assessment Physics Principles Problems
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answers To Assessment Physics Principles Problems
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Answers To Assessment Physics Principles Problems
- Setting Reading Goals Answers To Assessment Physics Principles Problems
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Answers To Assessment Physics Principles Problems
- Fact-Checking eBook Content of Answers To Assessment Physics Principles 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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