

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

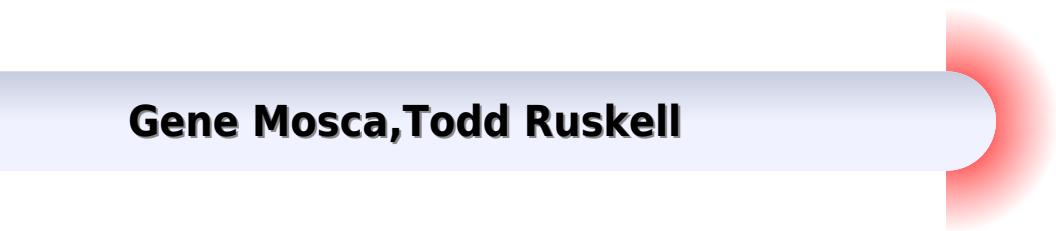
Section 7-1**Planetary Motion and Gravitation**

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

Physics Principles Problems Chapter 12 Study Guide

Answer Key

Gene Mosca, Todd Ruskell



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Table of Contents Physics Principles Problems Chapter 12 Study Guide Answer Key

1. Understanding the eBook Physics Principles Problems Chapter 12 Study Guide Answer Key
 - The Rise of Digital Reading Physics Principles Problems Chapter 12 Study Guide Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Physics Principles Problems Chapter 12 Study Guide Answer 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 Physics Principles Problems Chapter 12 Study Guide Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physics Principles Problems Chapter 12 Study Guide Answer Key
 - Personalized Recommendations
 - Physics Principles Problems Chapter 12 Study Guide Answer Key User Reviews and Ratings
 - Physics Principles Problems Chapter 12 Study Guide Answer Key and Bestseller Lists

5. Accessing Physics Principles Problems Chapter 12 Study Guide Answer Key Free and Paid eBooks
 - Physics Principles Problems Chapter 12 Study Guide Answer Key Public Domain eBooks
 - Physics Principles Problems Chapter 12 Study Guide Answer Key eBook Subscription Services
 - Physics Principles Problems Chapter 12 Study Guide Answer Key Budget-Friendly Options
6. Navigating Physics Principles Problems Chapter 12 Study Guide Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Physics Principles Problems Chapter 12 Study Guide Answer Key Compatibility with Devices
 - Physics Principles Problems Chapter 12 Study Guide Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physics Principles Problems Chapter 12 Study Guide Answer Key
 - Highlighting and Note-Taking Physics Principles Problems Chapter 12 Study Guide Answer Key
 - Interactive Elements Physics Principles Problems Chapter 12 Study Guide Answer Key
8. Staying Engaged with Physics Principles Problems Chapter 12 Study Guide Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physics Principles Problems Chapter 12 Study Guide Answer Key
9. Balancing eBooks and Physical Books Physics Principles Problems Chapter 12 Study Guide Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physics Principles Problems Chapter 12 Study Guide Answer Key
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Physics Principles Problems Chapter 12 Study Guide Answer Key
 - Setting Reading Goals Physics Principles Problems Chapter 12 Study Guide Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physics Principles Problems Chapter 12 Study Guide Answer Key
 - Fact-Checking eBook Content of Physics Principles Problems Chapter 12 Study Guide Answer 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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object fields are accessed by their name you must use a name that is unambiguous you may use a simple name for a field within its own class for example we can add a statement within the rectangle class that prints the width and height system out println width and height are width height in this case width and height are

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using transient application data objects and objects of classes that are not persistence capable for parameter values is not portable across jdo implementations declaring the query s variables the query interface provides a method to declare

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in order to provide persistent services for the application s data objects jdo must manage the objects within a java virtual machine jvm jdo manages some objects and does not manage other objects if jdo manages an object it manages its persistent state or its transactional state or both

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managers using a persistence manager the application can control the life cycle and caching of application data objects it can get the identity object for a persistent application data object and it can later fetch the persistent object that corresponds to an identity object finally the persistencemanager interface has factory methods

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