

**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 Answers Chapter 10

**P.D. OUSPENSKY**



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## **Table of Contents Physics Principles Problems Answers Chapter 10**

1. Understanding the eBook Physics Principles Problems Answers Chapter 10
  - The Rise of Digital Reading Physics Principles Problems Answers Chapter 10
  - Advantages of eBooks Over Traditional Books
2. Identifying Physics Principles Problems Answers Chapter 10
  - 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 Answers Chapter 10
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physics Principles Problems Answers Chapter 10
  - Personalized Recommendations
  - Physics Principles Problems Answers Chapter 10 User Reviews and Ratings
  - Physics Principles Problems Answers Chapter 10 and Bestseller Lists
5. Accessing Physics Principles Problems Answers Chapter 10 Free and Paid eBooks
  - Physics Principles Problems Answers Chapter 10 Public Domain eBooks
  - Physics Principles Problems Answers Chapter 10 eBook Subscription Services
  - Physics Principles Problems Answers Chapter 10 Budget-Friendly Options

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