

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

Chapter 3 Study Guide Answer Key Physics Principles And Problems

H Kauffman



Chapter 3 Study Guide Answer Key Physics Principles And Problems:

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Brookhaven College Fundamentals of Physics, Study Guide Stanley A. Williams, Kenneth Brownstein, Thomas Marcella, 1988-10-18 This third edition of the famous introductory physics text has been thoroughly revised and updated The new edition contains two entirely new chapters Relativity as the concluding chapter of the regular version and Particles and the Cosmos as the concluding chapter of the extended version New also are 16 essays distributed throughout the text on applications of physics to real world topics of student interest Each essay is self contained and is written by an expert in the topic The body of the text contains more help in problem solving and the chapter sections are shorter making the material more accessible There are more photos and diagrams than before including attention getting chapter head photos and captions The number of worked examples has been increased as has the number of questions exercises and problems In addition a thread of ideas from relativistic and quantum physics is weaved through the earlier chapters preparing the way for the later chapters **Study Guide to Accompany Physics, by Paul A. Tipler** Granvil C. Kyker, 1976

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Table of Contents Chapter 3 Study Guide Answer Key Physics Principles And Problems

1. Understanding the eBook Chapter 3 Study Guide Answer Key Physics Principles And Problems
 - The Rise of Digital Reading Chapter 3 Study Guide Answer Key Physics Principles And Problems
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 3 Study Guide Answer Key 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 Chapter 3 Study Guide Answer Key Physics Principles And Problems
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 3 Study Guide Answer Key Physics Principles And Problems

- Personalized Recommendations
- Chapter 3 Study Guide Answer Key Physics Principles And Problems User Reviews and Ratings
- Chapter 3 Study Guide Answer Key Physics Principles And Problems and Bestseller Lists
- 5. Accessing Chapter 3 Study Guide Answer Key Physics Principles And Problems Free and Paid eBooks
 - Chapter 3 Study Guide Answer Key Physics Principles And Problems Public Domain eBooks
 - Chapter 3 Study Guide Answer Key Physics Principles And Problems eBook Subscription Services
 - Chapter 3 Study Guide Answer Key Physics Principles And Problems Budget-Friendly Options
- 6. Navigating Chapter 3 Study Guide Answer Key Physics Principles And Problems eBook Formats
 - ePub, PDF, MOBI, and More
 - Chapter 3 Study Guide Answer Key Physics Principles And Problems Compatibility with Devices
 - Chapter 3 Study Guide Answer Key Physics Principles And Problems Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 3 Study Guide Answer Key Physics Principles And Problems
 - Highlighting and Note-Taking Chapter 3 Study Guide Answer Key Physics Principles And Problems
 - Interactive Elements Chapter 3 Study Guide Answer Key Physics Principles And Problems
- 8. Staying Engaged with Chapter 3 Study Guide Answer Key Physics Principles And Problems
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 3 Study Guide Answer Key Physics Principles And Problems
- 9. Balancing eBooks and Physical Books Chapter 3 Study Guide Answer Key Physics Principles And Problems
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter 3 Study Guide Answer Key Physics Principles And Problems
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Chapter 3 Study Guide Answer Key Physics Principles And Problems
 - Setting Reading Goals Chapter 3 Study Guide Answer Key Physics Principles And Problems
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chapter 3 Study Guide Answer Key Physics Principles And Problems

- Fact-Checking eBook Content of Chapter 3 Study Guide Answer Key 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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