Answer Key

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 then 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. $\dfrac{v_P}{v_A} = \dfrac{A}{P} = \dfrac{10.0}{6.0} = \dfrac{1.7}{1}$
5. $v_A =$ minimum velocity
   $= 3.7$ km/s
   $v_P = 1.7 \times v_A$
   $= 1.7 \times 3.7$ km/s
   $= 6.3$ 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 $\dfrac{1}{36}F$
18. $r_B = \sqrt{\dfrac{T_B{}^2 r_A{}^3}{T_A{}^2}}$
19. $2F$
20. $\dfrac{1}{4}F$
21. $6F$
22. $4F$
23. $4F$
24. the planet's mean distance from the Sun as well as the mass of the Sun

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Physics ,2009   Merrill Physics ,1995   **Enrichment Physics:Princ and Problems** Zitzewitz,1998-06   **Physics, Principles with Applications** Douglas C. Giancoli,1985   Chatgpt and Other Generative AI Tools Jochen Kuhn,Stefan Küchemann,Knut Neumann, Martina Rau,2025-02-17 In the past ten years applications of generative artificial intelligence GAI have found rapidly growing use in medicine science and daily life Large language models LLMs opened up new avenues in particular for education LLMs have been used to create interactive educational content for students stimulate their curiosity generate code explanations and develop assessment questions Additionally LLMs been applied for language practice anxiety alleviation and feedback provision In higher education LLMs have shown potential for assisting in medical exam preparation and clinical decision making In school education LLMs can help teachers with automated evaluation of student responses and respective adaptive feedback More recently LLM based applications such as chatGPT have been used to generate teaching materials or assessment tasks across different subjects The fields understanding of the effects of the use of LLM based applications in classroom teaching however is still in its infancy GAI tools may help solving a range of tasks in education in particular with respect to teachers and students and teachers efforts to generate content However it is critical that teachers and students do not overly rely on GAI generated solutions but instead critically assess each solution Students should furthermore not use GAI tools to avoid investing relevant mental effort to create mental models or more broadly build up competencies   **Phy. Lab and Pocket Lab Wk/Sheets Phy:P&P** Zitzewitz,1998-07   Study Guide to Accompany Physics : Principles and Insights Ira Maximilian Freeman,1968   ,   Expertise and Decision Support F. Bolger,G. Wright,2007-08-19 This volume brings together a range of contributors from Europe and North America All contributions were especially commissioned with a view to e cidating a major multidisciplinary topic that is of concern to both academics and practitioners The focus of the book is on expert judgment and its interaction with decision support systems In the first part the nature of expertise is discussed and characteristics of expert judges are described Issues concemed with the eval tion of judgment in the psychological laboratory are assessed and contrasted with studies of expert judgment in ecologically valid contexts In addition issues concerned with eliciting and validating expert knowledge are discussed Dem strations of good judgmental performance are linked to situational factors such as feedback cycles and measurement of coherence and reliability in expert ju ment is introduced as a baseline determinant of good judgmental performance Issues concerned with the representation of elicited expert knowledge in kno edge based systems are evaluated and methods are described that have been shown to produce improvements in judgmental performance Behavioral and mathematical ways of combining judgments from multiple experts are compared and contrasted Finally the issues developed in the preceding contributions are focused on current controversies in decision support Expert judgment is utilized as a major input into decision analysis forecasting with statistical models and expert s tems   *The Science Teacher* ,1987

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Curriculum Review ,1985

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