

**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

**N Noddings**



## **Answers To Assessment Physics Principles Problems:**

Gaming and Simulations: Concepts, Methodologies, Tools and Applications Management Association, Information Resources,2010-11-30 This book set unites fundamental research on the history current directions and implications of gaming at individual and organizational levels exploring all facets of game design and application and describing how this emerging discipline informs and is informed by society and culture Provided by publisher *Web-Based Engineering Education: Critical Design and Effective Tools* Russell, Donna,Haghi, A.K.,2010-06-30 Rapid advances in computer technology and the internet have created new opportunities for delivering instruction and revolutionizing the learning environment This development has been accelerated by the significant reduction in cost of the Internet infrastructure and the easy accessibility of the World Wide Web This book evaluates the usefulness of advanced learning systems in delivering instructions in a virtual academic environment for different engineering sectors It aims at providing a deep probe into the most relevant issues in engineering education and digital learning and offers a survey of how digital engineering education has developed where it stands now how research in this area has progressed and what the prospects are for the future

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*Proceedings of the National Science Foundation Workshop on the Role of Faculty from the Scientific Disciplines in the Undergraduate Education of Future Science and Mathematics Teachers* ,1993 **Physics** John D. Cutnell,2004

Teaching Engineering Design Institution of Engineering Designers,1966 **Developmental Cognitive Science Goes to School** Nancy L. Stein,Stephen Raudenbush,2013-08-15 This book addresses core issues related to school learning and the use of developmental cognitive science models to improve school based instruction The contributors comprise a veritable who s who of leading researchers and scientists who are broadly trained in developmental psychology cognitive science economics sociology statistics and physical science and who are using basic learning theories from their respective disciplines to create better learning environments in school settings Developmental Cognitive Science Goes to School presents evidence based studies that describe models of complex learning within specific subject area disciplines focuses on domain knowledge and how this knowledge is structured in different domains across the curriculum gives critical attention to the topic of the ability to overcome errors and misconceptions addresses models that should be used to begin instruction for populations of children who normally fail at schooling This is a must read volume for all researchers students and professionals interested in evidence based educational practices and issues related to domain specific teaching and learning

**Science Framework for the 2009 National Assessment of Educational Progress** ,2008 **Phy P&P Les Plans Blk Sch 99** Zitzewitz,1998-06 **Phy. Lab and Pocket Lab Wk/Sheets Phy:P&P** Zitzewitz,1998-07 *Science Framework for the 2011 National Assessment of Educational Progress* ,2010 *Educational Psychology* Christine McCormick,Gary D. Borich,Christine B. McCormick,Michael Pressley,Martin L. Tombari,1997 This text aims to teach students the principles of educational psychology through a base of solid research The text encourages critical thinking and therefore integrates a theme of promoting good information processing which will help students build and use strategic knowledge develop metacognitive abilities acquire knowledge of the world and its cultures and stay motivated **05-5258 - 05-5393** ,2005 *Coastal Pollution Assessment* ,1978 Issues in Educational Assessment Great Britain. Scottish Education Department,1979 **Forty-five New Force and Motion Assessment Probes** Page Keeley,Rand Harrington,2010 Nationally known science educator Page Keeley principal author of the hugely popular four volume NSTA Press series Uncovering Students Ideas in Science has teamed up with physicist and science educator Rand Harrington to

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**Problem-based Learning** Donald R. Woods,1994

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