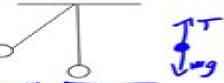
Vertical Circular Motion Concept Check Sheet

Name

 A child is on a swing. What direction is the centripetal force on the child when they are at the bottom of the swing? What direction is the child's velocity? What direction is the child's acceleration? Draw vectors.



- 2. A bucket full of water is swung in a vertical circle by a rope. Where in its motion is the tension in the rope a maximum? Where in its motion is the tension in the rope a minimum?
- A pendulum bob with a mass of 1 kg is connected to a string and allowed to swing so that its speed at the bottom of is swinging motion is 10 m/s.
 - Fuct = MUE = (kg) (10%) 100 N
 - b. What is the tension in the string at the bottom of its swing? (use a force diagram to help)



- FUTTE = T-100=> T= 100+100=100N+(14)(9.81==109.81N)
- 4. What is the period of a pendulum that has a length of 0.5 meters?

5. The period of the pendulum in a grandfather clock is 2 second (1 second over ("tick") and 1 second back ("tock")). How long is the pendulum in a grandfather clock?

 On planet X a pendulum with a length of 0.5 m has a period of 1.0 second. What is the acceleration due to gravity (g) on planet X?

- 7. A plane comes out of a power dive, turning upward in a curve of radius 1500 m. The plane's speed is 300 m/s.
 - a. What is the Centripetal force on the pilot if he has a mass of 80 kg?

b. What force must the seat of the plane apply to his body for this motion to happen? (use a force diagram)

Physics Classroom Circular Motion Answer Key

David Halliday, Robert Resnick, Jearl Walker

Physics Classroom Circular Motion Answer Key:

Honors Physics Essentials Dan Fullerton, 2011-12-13 Featuring more than five hundred questions with worked out solutions and detailed illustrations this book is integrated with the APlusPhysics com website which includes online question and answer forums videos animations and supplemental problems to help you master Honors in physics essentials Page 4 of **Resources in Education** ,1986-10 Lesson Plan Bklt Physics Zitzewitz, 2001-09 Announcer American Association of Physics Teachers, 2000 Phy P&P Les Plans Blk Sch 99 Zitzewitz, 1998-06 Essentials of Modern Communications Djafar K. Mynbaev, Lowell L. Scheiner, 2020-08-04 Explore Modern Communications and Understand Principles of Operations Appropriate Technologies and Elements of Design of Communication Systems Modern society requires a different set of communication systems than has any previous generation To maintain and improve the contemporary communication systems that meet ever changing requirements engineers need to know how to recognize and solve cardinal problems In Essentials of Modern Communications readers will learn how modern communication has expanded and will discover where it is likely to go in the future By discussing the fundamental principles methods and techniques used in various communication systems this book helps engineers assess troubleshoot and fix problems that are likely to occur In this reference readers will learn about topics like How communication systems respond in time and frequency domains Principles of analog and digital modulations Application of spectral analysis to modern communication systems based on the Fourier series and Fourier transform Specific examples and problems with discussions around their optimal solutions limitations and applications Approaches to solving the concrete engineering problems of modern communications based on critical logical creative and out of box thinking For readers looking for a resource on the fundamentals of modern communications and the possible issues they face Essentials of Modern Communications is instrumental in educating on real life problems that engineering students and professionals are likely to encounter

Fundamentals of Physics David Halliday, Robert Resnick, Jearl Walker, 2010-03-15 This book arms engineers with the tools to apply key physics concepts in the field A number of the key figures in the new edition are revised to provide a more inviting and informative treatment The figures are broken into component parts with supporting commentary so that they can more readily see the key ideas Material from The Flying Circus is incorporated into the chapter opener puzzlers sample problems examples and end of chapter problems to make the subject more engaging Checkpoints enable them to check their understanding of a question with some reasoning based on the narrative or sample problem they just read Sample Problems also demonstrate how engineers can solve problems with reasoned solutions INCLUDES PARTS 1 4 PART 5 IN FUNDAMENTALS OF PHYSICS EXTENDED Physics for Scientists and Engineers Raymond A. Serway, 2004 NOT SOLD SEPARATELY PHYSICS FOR SCIENTISTS AND ENGINEERS 6th maintains the Serway traditions of concise writing for the students carefully thought out problem sets and worked examples and evolving educational pedagogy This edition introduces

a new co author Dr John Jewett at Cal Poly Pomona known best for his teaching awards and his role in the recently published PRINCIPLES OF PHYSICS 3rd also written with Ray Serway This authoritative text along with the newly enhanced supplemental package for instructors and students provides students with the best in introductory physics education Providing students with the tools they need to succeed in introductory physics the 6th edition of this authoritative text features unparalleled media integration and a newly enhanced supplemental package for instructors and students

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Making Physics Fun Robert Prigo, 2007-04-05 The activities and examples include many that have with stood the test of time for successful science instruction and that enable teachers to link science to the lives of students Elizabeth Hammerman

Science Educator and Consultant A substantial contribution to the field of science education and an easy way for busy teachers to make science more meaningful exciting and connected for students An important mix of both content and activities that teachers can use to meet individual needs Kerry Williams Professor Wayne State College Boost student interest and understanding in the physical sciences Teaching physical science in the elementary and middle grades can be challenging for busy teachers faced with growing science demands and limited classroom resources Robert Prigo provides fun and engaging activities using safe available materials that educators can easily incorporate into lesson plans Extensive examples sample inquiry questions and ideas for initiating units are readily available for teachers to pick and choose from to meet student needs The result of more than two decades of professional development work with hundreds of teachers and administrators Making Physics Fun addresses five specific areas of physical science motion and force fluids and buoyancy waves and sound light and electromagnetic waves and electricity and magnetism Dozens of activities demonstrating physics in action help students of all ages relate physics principles to their everyday experiences Using easy to understand language this practitioner friendly resource helps teachers Address the big ideas in K 8 science education Promote student understanding with ready to use learning experiences Use hands on activities to help students make larger real world connections Assemble classroom learning centers to facilitate deeper understanding of basic physics principles With conceptual summaries to support teachers proficiency and understanding of the content this guidebook is ideal for bringing physics to life for students in the classroom and in their lives The School Science Review The Education Index .1991 ,2001

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