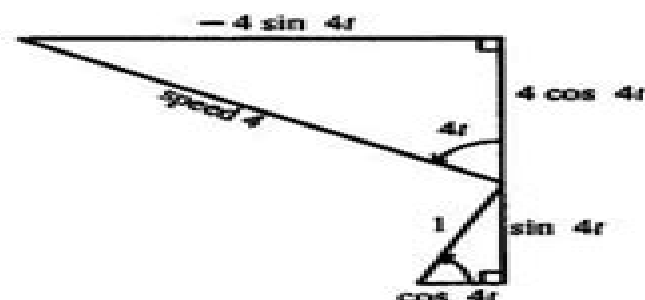
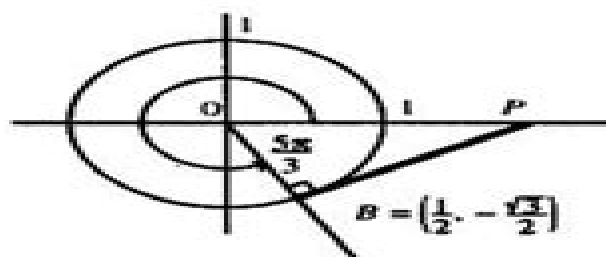


4 Suppose that string is cut at  $t = \frac{5\pi}{3}$ . When and where would the ball hit the  $x$  axis?

- You need to know some trigonometry, which is shown in the figure. The ball is at  $B = (\cos \frac{5\pi}{3}, \sin \frac{5\pi}{3}) = (\frac{1}{2}, -\frac{\sqrt{3}}{2})$ . When the string is cut, the ball travels along  $BP$  at one meter per second. The tangent of the angle  $POB = \frac{\pi}{3}$  is  $\frac{PB}{OB} = \frac{\sqrt{3}}{1}$ . Therefore the ball goes from  $B$  to  $P$  in  $\sqrt{3}$  seconds. The time of arrival is  $\frac{5\pi}{3} + \sqrt{3}$ . The right triangle has  $OB^2 + BP^2 = 1^2 + (\sqrt{3})^2 = 4$ , so the hypotenuse is  $OP = 2$ .



- 5 Another ball moves the unit circle counterclockwise with speed 1 radian/second starting at angle 0.
- When angle  $\theta$  is such as that of Figure 1, the ball is at  $(\cos \theta, \sin \theta)$  on the circumference counterclockwise to a radial angle of 1 radian. Then the speed is 1 radian/second, so the radial angle is increasing at 1 radian/second. At time  $t$  the angle is  $\theta$  radian.
  - What are the ball's  $x$  and  $y$  coordinates at time  $t$ ? Answer:  $(\cos \theta, \sin \theta)$ .
  - What are the ball's  $x$  and  $y$  velocities at time  $t$ ? Answer: The velocity (the tangent vector) is shown with length 1 because the speed is 1. The velocity makes the circle's radius at the origin normal to the circle. The sides of the large triangle are two times longer. Then the vertical velocity is  $\sin \theta$  and the horizontal velocity is  $-\cos \theta$ .
- Summary: Motion around the unit circle with speed 1 (counterclockwise) gives  $x = \cos \theta$  and  $y = \sin \theta$ . The velocity is  $-\sin \theta$  horizontally and  $\cos \theta$  vertically.
- 6 What are the components of velocity if a ball moves at 2 radian per second around a circle, radius 2 feet (starting at angle 0)?
- The ball's position at time  $t$  is  $(2 \cos 2t, 2 \sin 2t)$ . Then the ball moves 2 feet along the circumference for each radian, the speed is 2 ft/sec. The horizontal velocity is  $-2 \sin 2t$  and the vertical velocity is  $2 \cos 2t$ .

Motion around a circle of radius 2 feet at 2 radian per second gives  $x = 2 \cos 2t$  and  $y = 2 \sin 2t$ . The speed is 2 ft/sec. The horizontal velocity is  $-2 \sin 2t$ . The vertical velocity is  $2 \cos 2t$ .

# Circular Motion Study Guide

**Camilla Rothe**



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**Study Guide with ActivPhysics** Alan Van Heuvelen, Richard Wolfson, Jay M. Pasachoff, 1999 Student Study Guide & Selected Solutions Manual David D. Reid, 2007 *Study Guide and Student Solutions Manual* Douglas Brandt, 2000 Physics for Scientists and Engineers combines outstanding pedagogy with a clear and direct narrative and applications that draw the reader into the physics. The new edition features an unrivaled suite of media and on-line resources that enhance the understanding of physics. Many new topics have been incorporated such as the Otto cycle, lens combinations, three-phase alternating current, and many more. New developments and discoveries in physics have been added, including the Hubble space telescope, age and inflation of the universe, and distant planets. Modern physics topics are often discussed within the framework of classical physics where appropriate. For scientists and engineers who are interested in learning physics.

*Study Guide to Accompany Physics*, by Paul A. Tipler Granvil C. Kyker, 1976 **Study Guide for the Mainstream of Physics** Arthur Beiser, Germaine Beiser, 1962 **Study Guide and Student Solutions Manual for Wilson College Physics** David Cordes, Jerry D. Wilson, John Kinard, 1990 This reader-friendly book presents the fundamental principles of physics in a clear and concise manner. Emphasizing conceptual understanding as the basis for mastering a variety of problem-solving tools, it provides a wide range of relevant applications and illustrative examples. This book discusses mechanics, thermodynamics, and oscillations and wave motion. For anyone wishing to learn more about the fundamentals of physics and how physical principles apply to a variety of real-world situations, devices, and topics. **Research in Education**, 1974

Resources in Education, 1974 Student Study Guide to Accompany Fundamentals of Physics, Rev. Printing, Physics, 3d Ed., Parts 1 and 2 Stanley A. Williams, 1978 **Study Guide--Physics for Scientists and Engineers with Modern Physics [by] Douglas C. Giancoli, 2nd Ed** Douglas Brandt, Keith Andrew, Leonard E. Storm, 1988 *Study Guide to Accompany Halliday and Resnick Fundamentals of Physics 2nd Ed. and Physics, Combined, 3rd Ed.* Stanley A. Williams, 1981-04-27 This popular book incorporates modern approaches to physics. It not only tells readers how physics works, it shows them. Applications have been enhanced to form a bridge between concepts and reasoning. *Physics Study Guide* Thomas O'Kuma, Arthur Beiser, 1991 **Study Guide to Accompany University Physics, Hugh D. Young, Eighth**

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
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