

# PRE-CALCULUS

## CONIC SECTIONS/CIRCLE

### PRACTICE SHEET WITH ANSWERS

#### Worksheet 1.3

Name: \_\_\_\_\_

Section: \_\_\_\_\_

#### I. Applying the concepts.

Write the equation of the circle in standard form. **Solutions are required on a separate sheet.**

1. The circle has its center at the point  $C(3, 0)$  and passes through the origin.

Ans.:  $(x-3)^2 + y^2 = 9$

2. A diameter of the circle has endpoints  $P_1(-2, 4)$  and  $P_2(2, -2)$ .

Ans.:  $x^2 + (y-1)^2 = 13$

3. The circle has radius 1, is tangent to both the  $x$  and  $y$  axes, and lies in quadrant II.

Ans.:  $(x+1)^2 + (y-1)^2 = 1$

#### II. Solve the following problem.

1. Find the radius of the circle that passes through the point  $P(2, 1)$  and has its center the point  $C(3, -4)$ . **Ans:  $r=\sqrt{26}$      $(x-3)^2 + (y+4)^2 = 26$**
2. A single-lane street 12 ft wide goes through a semicircular tunnel with radius 10 ft. How high is the tunnel at the edge of each of the lane? Round off to 2 decimal places. **Ans: 8ft high**

The Enchanted Kingdom hosts around 20 rides and attractions as of 2013.<sup>[1]</sup> Among the attractions is the space shuttle, a roller coaster, and the Wheel of Fate, a 39.62 meters (130.0 ft) high Ferris wheel with 36 gondolas with each gondola having a 6-person capacity. (Source: Wikipedia)

3. Let's say a Ferris wheel is elevated 1.62 m above the ground. When a gondola reaches the highest point of the Ferris wheel its altitude from the ground level is 39.62 meters. How far away from the center horizontally is the gondola when it is at an altitude of 31.62 m? **Ans: 15.49 meters**

# Conics Word Problems Worksheet Answers

**Rachel Sandford**



## Conics Word Problems Worksheet Answers:

Curriculum Review ,1983      **Learning and Leading with Technology** ,1998      Fun Food Word Problems Starring Fractions Rebecca Wingard-Nelson,2009-01-01 Explores methods of solving fraction word problems using food examples Provided by publisher      Mastering Word Problems Susan Anderson Mauck,2004 Problem Solving Strategies Whole Class Practice Independent Practice Practice Sheets Homework Sheets Problem Solving Tests      **Word Problems Using Addition and Subtraction** Zella Williams,Rebecca Wingard-Nelson,2016-12-15 Word problems can be daunting for students young and old alike This book teaches students to break the solving process into four simple steps They learn that every problem has clue words to tell them which operation to use and easy to follow sample problems all related to animals give readers the confidence to solve new problems on their own A tips section helps encourage readers to try their best to ask for help and to keep practicing      **Word Problems for Model Drawing Solution Key (3-4)** Jana M. Hazekamp,Sandra Chec,2012-02-01      Primary Word Problems, Book 2 Dr. Now,2014-12-12 Primary Word Problem Book 2 is an extension of Dr Nows Word Problem for the Day Activities in the book are derived from lesson plans Dr Now used to teach classes in mathematics Word Problem for the Day was a repetitive activity Dr Now created to help children comprehend mathematical principles in the real world      **Sports Word Problems Starring Decimals and Percents** Rebecca Wingard-Nelson,2009-01-01 Using sports word problems from soccer to white water rafting author Rebecca Wingard Nelson makes decimal and percent word problems easy and fun Included are some helpful clue words and ways to figure out if readers have enough information to solve a word problem With the help of this fully illustrated book even the most reluctant math student will learn not to fear word problems      **Word Problems** ,2002      **CliffsQuickReview Math Word Problems** Karen L. Anglin,2007-05-21 CliffsQuickReview course guides cover the essentials of your toughest classes Get a firm grip on core concepts and key material and test your newfound knowledge with review questions CliffsQuickReview Math Word Problems gives you a clear concise easy to use review of the basics of solving math word problems Introducing each topic defining key terms and carefully walking you through each sample problem gives you insight and understanding to solving math word problems You begin by building a strong foundation in translating expressions inserting parentheses and simplifying expressions On top of that base you can build your skills for solving word problems Discover the six basic steps for solving word problems Translate English language statements into equations and then solve them Solve geometry problems involving single and multiple shapes Work on proportion and percent problems Solve summation problems by using the Board Method Use tried and true methods to solve problems about money investments mixtures and distance CliffsQuickReview Math Word Problems acts as a supplement to your textbook and to classroom lectures Use this reference in any way that fits your personal style for study and review you decide what works best with your needs Here are just a few ways you can search for information View the chapter on common errors and how to avoid them Get a glimpse of what you ll

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Thompson,1999-09-01 Word Problems provides a variety of activities designed to enrich and reinforce math skills taught at the fourth through sixth grade levels The pages are presented in a suggested order but may be used in any order that best meets a child s needs Exercises are designed so a child can work with a minimum of supervision in a classroom or at home The whimsical characters will entertain and motivate your children An answer key is also included at the end of the book

**Math Word Problems Demystified** Allan Bluman,2004-08-23 Word problems are the most difficult part of any math course and the most important to both the SATs and other standardized tests This book teaches proven methods for analyzing and solving any type of math word problem      **Word Problems with Whole Numbers** Paul R. Robbins,Sharon K.

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