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## Chapter 2 Polynomial And Rational Functions Andyou

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## Chapter-2

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2.01 CHAPTER 2: POLYNOMIAL AND RATIONAL FUNCTIONS SECTION 2.1: QUADRATIC FUNCTIONS (AND PARABOLAS) PART A: BASICS If  $a$ ,  $b$ , and  $c$  are real numbers, then the graph of  $f(x) = ax^2 + bx + c$  is a parabola, provided  $a \neq 0$ . If  $a > 0$ , it opens upward. If  $a < 0$ , it opens downward. Examples The graph of  $y = x^2 - 4x + 5$  (with  $a = 1 > 0$ ) is on the left.

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CHAPTER 2 Polynomial and Rational Functions Section 2.1 Quadratic Functions and Models 136 You should know the following facts about parabolas.  $f(x) = x^2 - 4x + 4$  is a quadratic function, and its graph is a parabola. If the parabola opens upward and the vertex is the point with the minimum y-value.

## CHAPTER 2 Polynomial and Rational Functions

CHAPTER 2 Polynomial and Rational Functions Section 2.1 Quadratic Functions 88

1. opens upward and has vertex  $(2, 0)$ . Matches graph (c).  $f(x) = x^2 - 4x + 4$
2. opens downward and has vertex  $(0, 3)$ . Matches graph (d).  $f(x) = -x^2 + 3$
3. opens upward and has vertex  $(3, 0)$ . Matches graph (b).  $f(x) = x^2 - 6x + 9$
4. opens downward and has vertex  $(4, 0)$ . Matches graph (a).  $f(x) = -x^2 + 8x - 16$

## CHAPTER 2 Polynomial and Rational Functions

(Answers for Chapter 2: Polynomial and Rational Functions)

A.2.8 7)  $-7i$  must be a zero.  $x^2 + 49$  must be a factor; it is prime (irreducible) over  $\mathbb{R}$ . 8)  $24 + 5i$  must be a zero.  $x^2 - 8x + 41$  must be a factor; it is prime (irreducible) over  $\mathbb{R}$ . 9) The zeros are  $0$  (with multiplicity 3) and  $2$  (with multiplicity 2).

## CHAPTER 2: Polynomial and Rational Functions

Chapter 2 Polynomial and Rational Functions Section 2.1 Check Point Exercises

1. a.  $(5 - 2i) + (3 + 3i) = 5 - 2i + 3 + 3i = 8 + i$   
c.  $-14 + (-12) = -14 + i$   
 $12 - 2 = -14 + 2i$   
 $3 - 2 = -14 + 2i$   
 $2 = (5 + 3) + (-2 + 3)i = 8 + i$
- b.  $(2 + 6i) - (12 - i) = 2 + 6i - 12 + i = 5. x^2 - 2x + 2 = 0$   
 $a = 1, b = -2, c = 2$

## Chapter 2 Polynomial and Rational Functions

Chapter 2 Polynomial and Rational Functions Section 2.1 Quadratic Functions Objective: In this lesson you learned how to sketch and analyze graphs of quadratic functions. I. The Graph of a Quadratic Function (Pages 90–92) Let  $n$  be a nonnegative integer and let  $a_n, a_{n-1}, \dots, a_2, a_1, a_0$  be

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real numbers with a  $n \geq 0$ . A polynomial function of  $x$  with

## ~~Chapter 2 Polynomial and Rational Functions~~

Polynomial and rational functions are two of the most common types of functions used in algebra and calculus. In Chapter 2, you will learn how to graph these types of functions and how to find the zeros of these functions. Aerodynamics is crucial in creating racecars. Two types of racecars designed and built

## ~~Polynomial and Chapter 2 Rational Functions~~

Chapter 2; Polynomial and rational functions Sect. 2.1, Quadratic functions and models Video 1: Writing the equation of a quadratic function; Thinkwellvids, 4:52

## ~~Chapt. 2, Polynomial and rational functions~~

70 Chapter 2 Polynomial, Power, and Rational Functions 37.  
 $f(x) = 2(x^2 + 3x) + 7 = 2x^2 + 7$  - Vertex: axis: opens upward; does not intersect the  $x$ -axis; vertically stretched by 2. 38.  
 $g(x) = 5(x^2 - 5x) + 12 = 5x^2 - 25x + 12$  - Vertex: axis: opens upward; intersects  $x$ -axis at about 0.538 and 4.462 vertically stretched by 5. For #39–44, use the form  $y = a(x-h)^2 + k$ , taking the

## ~~Chapter 2 Polynomial, Power, and Rational Functions~~

Chapter 2 –Polynomials and Rational Functions Answer Key. CK-12 PreCalculus Concepts 7. 2.7 Holes in Rational Functions. Answers. 1. You can find holes in a rational function by setting the denominator in the rational part of the function equal to 0 and solving for the variable in the rational part of the function. 2.

## ~~Chapter 2 Polynomials and Rational Functions Answer Key 2~~

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Polynomial and Rational Functions; Precalculus with Limits  
Ron Larson. Chapter 2 Polynomial and Rational Functions.  
Educators. JS TH Section 1. Quadratic Functions and Models  
01:44. Problem 1 Fill in the blanks. ...

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Page | 29 Chapter 2 – Polynomial and Rational Functions  
Section 1 Quadratic Functions Section 2 Polynomial  
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The Fundamental Theorem of Algebra Section 6 Rational  
Functions and Asymptotes Section 7 Graphs of Rational  
Functions Vocabulary ...

~~Chapter 2 – Polynomial and Rational Functions –~~

Chapter 2 – Analyzing Polynomial and Rational Functions  
Answer Key 2.1 Methods for Solving Quadratic Functions  
Answers 1. a) standard form b) vertex form c) factored form.  
2.  $x = \{7, -2\}$  3.  $x = 2$  4.  $x = \{-1/2, -3/2\}$  5. , 6.  $x = \{4, -4\}$  7. , 8.  
An equation with a power of 4 can often be FOILED and you  
can then solve each binomial

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Introduction to Polynomial and Rational Functions; 5.1 Quadratic Functions; 5.2 Power Functions and Polynomial Functions; 5.3 Graphs of Polynomial Functions; 5.4 Dividing Polynomials; 5.5 Zeros of Polynomial Functions; 5.6 Rational Functions; 5.7 Inverses and Radical Functions; 5.8 Modeling Using Variation

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Chapter 5 – Quadratics, Polynomials and Rational Expressions Topic 5.16 – Polynomial and Rational Inequalities Polynomial and Rational Inequalities demonstrates the process for solving an inequality involving rational expressions by analyzing the signs of the factors.

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