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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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~~[PDF] CHAPTER 2: POLYNOMIAL AND RATIONAL FUNCTIONS - Free~~



CHAPTER 2 Polynomial and Rational Functions Section 2.1 Quadratic Functions and Models 136 You should know the following facts about parabolas. f is a quadratic function, and its graph is a parabola. f 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 $(0, 3)$. Matches graph (b). $f(x) = x^2 + 3$
4. opens

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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. $(5 - 2i) + (3 + 3i) = 5 - 2i + 3 + 3i$ c. $(-14 + i)^2 = (-14)^2 + 2(-14)(i) + i^2 = 196 - 28i - 1 = 195 - 28i$ 3 $(2 + 3i)^2 = 2^2 + 2(2)(3i) + (3i)^2 = 4 + 12i - 9 = -5 + 12i$ 2 $(2 + 3i)^2 = (2 + 3i)(2 + 3i) = 4 + 6i + 6i + 9i^2 = 4 + 12i - 9 = -5 + 12i$

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$$\begin{aligned} &+ ((2 + 3)i = 8 + i) \quad \text{b. } (2 + 6i) - (12 - i) = \\ &2 + 6i - 12 + i = 5. \quad x^2 - 2x + 2 = 0 \quad a = \\ &1, \quad b = -2, \quad c = 2 \end{aligned}$$

~~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 real numbers with $a_n \neq 0$. 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.

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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.

$f(x)=2(x^2+3x)+7 =2x^2 +7x +7 =2x^2 + 7x + 7$ Vertex:
axis: opens upward; does not intersect the x-axis; vertically stretched by 2. 38.

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$g(x)=5(x^2-5x)+12=5x^2-25x+12$ - 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 ...~~

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

~~Polynomial and Rational Functions |
Precalculus w~~

Page | 29 Chapter 2 □ Polynomial and
Rational Functions Section 1
Quadratic Functions Section 2
Polynomial Functions of Higher
Degree Section 3 Real Zeros of
Polynomial Functions Section 4
Complex Numbers Section 5 The
Fundamental Theorem of Algebra
Section 6 Rational Functions and
Asymptotes Section 7 Graphs of
Rational Functions Vocabulary ...

~~Chapter 2 □ Polynomial and Rational
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Chapter 2 □ Analyzing Polynomial and

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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

~~Chapter 2 - Analyzing Polynomial and Rational Functions~~

Precalculus (6th Edition) Blitzer

answers to Chapter 2 - Section 2.5 -

Zeros of Polynomial Functions -

Exercise Set - Page 377 3 including

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Textbook Authors: Blitzer, Robert F.,

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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

~~Ch. 5 Introduction to Polynomial and Rational Functions ...~~

Polynomial and Rational Functions - Concept and Vocabulary Check.
Polynomial and Rational Functions - Exercise Set 3.2. Polynomial and Rational Functions - Exercise Set 3.2.
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~~Chapter 3 – Polynomial and Rational
Functions – Exercise ...~~

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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