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Section 3 1 Quadratic Functions

3.1 Quadratic functions A quadratic function is a function of the form: $f(x) = ax^2 + bx + c$ Where a is not zero.

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Quadratic functions are also called parabolas. Parabolas have a few characteristics: All parabolas have a vertex, (h,k) that represents either a maximum or minimum of the function. It is a point where the function changes from increasing to decreasing or vice versa. All parabolas ...

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Quadratic Functions The graph of a
quadratic function is called a parabola.
The standard form of a quadratic
function is $y = ax^2 + bx + c$, where a, b, c
are constants, $a \neq 0$. The parabola opens

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upward if $a > 0$

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Parabolas, Finding vertex.

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graph of a quadratic function is called a parabola. The standard form of a quadratic function is $y = f(x) = ax^2 + bx + c$, where a, b, c are constants, $a \neq 0$. The parabola opens upward if $a > 0$ and therefore has a maximum value or

Section 3.1 - Quadratic Functions

SECTION 3.1: Quadratic Functions

Objectives Graph and ...

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Section 3.2: Quadratic Functions

Recognizing Characteristics of

Parabolas. The graph of a quadratic function is a U-shaped curve called a

parabola. One... Understanding How the Graphs of Parabolas are Related to Their Quadratic Functions. If $a > 0$, the

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parabola opens upward. Finding the
Domain and ...

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Objectives. Graph and Analyze Quadratic
Functions in Standard and Vertex Form
Identify the Vertex, Axis of Symmetry,

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and Intercepts of a Quadratic Function
Find the Maximum or Minimum of a
Quadratic Function Build Quadratic
Models from Verbal Descriptions. 1.

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Functions and Models ...

3.1 Quadratic Functions in Vertex Form 1) Identify quadratic functions in vertex form. 2) Determine the effect of a , p , and q on the graph of a quadratic function in vertex form where $y = a(x - p)^2 + q$ 3) Analyse and graph quadratic functions using transformations.

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3.1 Quadratic Functions in Vertex Form

Section 3.1 Quadratic Functions 315
Check Point 1 Graph the quadratic function Graphing a Quadratic Function in Standard Form Graph the quadratic function Solution We begin by finding values for a and p Step 1 Determine how the parabola opens. Note that the coefficient

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of is 1. Thus, this positive value tells us that the parabola opens upward.

Section

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3.2 Quadratic Functions 165 Section 3.2

Quadratic Functions In this section, we will explore the family of 2nd degree polynomials, the quadratic functions.

While they share many characteristics of polynomials in general, the calculations involved in working with quadratics is

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typically a little simpler, which makes

Section 3.2 Quadratic Functions

Section 3.1 Solving Quadratic Equations

97 Solving Real-Life Problems To find the maximum value or minimum value of a quadratic function, you can first use factoring to write the function in intercept form $f(x) = a(x - p)(x - q)$.

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Because the vertex of the function lies on the axis of symmetry, $x = p + q - 2$, the maximum value

Monitoring Progress

Pre-Calculus 110 Section 3.1 QUADRATIC FUNCTIONS Investigating Quadratic Functions in Vertex Form The two forms

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of a quadratic function that have been explored previously are: Factored form: $f(x) = a(x - r)(x - s)$ Standard form: $f(x) = ax^2 + bx + c$ In this unit, we will be working with quadratic functions in vertex form, where a , p , and q are ...

QUADRATIC FUNCTIONS

The domain of a quadratic function is all

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real numbers. The shape of the graph of a quadratic function is called a parabola. Every quadratic function $f(x) = ax^2 + bx + c$ can be written as $f(x) = a(x - h)^2 + k$, where $h = -\frac{b}{2a}$ and $k = c - \frac{b^2}{4a}$.

Section 4.3: Quadratic Functions and Their Properties

Section 3.1 1. From the equation

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$yx = -23$, we see that the y -intercept is -3 . Thus, the point $(0, -3)$ is on the graph.

Chapter 3 Linear and Quadratic Functions

Section 5.3 Zeros of the Quadratic 473

Version: Fall2007 5.3 Exercises

In Exercises 1-8, factor the given qua-

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draticpolynomial. 1. $x^2 + 9x + 14$ 2. $x^2 + 6x + 5$ 3. $x^2 + 10x + 9$ 4. $x^2 + 4x - 21$ 5. $x^2 - 4x - 5$ 6. $x^2 + 7x - 8$ 7. $x^2 - 7x + 12$ 8. $x^2 + 5x - 24$ In Exercises 9-16, find the zeros of the given quadratic function. 9. $f(x) = x^2 - 2x - 15$ 10. $f(x) = x^2 + 4x - 32$ 11. $f(x) = x^2 + 10x - 39$ 12. $f(x) = x^2 + 4x - 45$ 13. f
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