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## **Section 3 1 Quadratic Functions**

Section 3.1 - Quadratic Functions. The graph of a quadratic function is called a

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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 Analyze Quadratic

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Functions in Standard and Vertex Form  
Identify the Vertex, Axis of Symmetry,  
and Intercepts of a Quadratic Function  
Find the Maximum or Minimum of a  
Quadratic Function Build Quadratic  
Models from Verbal Descriptions 1

### **SECTION 3.1: Quadratic Functions**

College Algebra - Math 1314 Section 3.1

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- Quadratic Functions Properties of  
Parabolas, Finding vertex.

## **Section 3.1 - Quadratic Functions**

Section 3.1 Transformations of Quadratic  
Functions 99 Essential Questions  
Question How do the constants  $a$ ,  $h$ , and  
 $k$  affect the graph of the quadratic  
function  $g(x) = a(x - h)^2 + k$ ? The



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parent function of the quadratic family is  $f(x) = x^2$ . A transformation of the graph of the parent function is represented by the function  $g(x) = a(x - h)^2 + k$ ,

### **3.1 Transformations of Quadratic Functions**

Section 3.1. 1. From the equation  $yx = -23$ , we see that the y- intercept is

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-3. Thus, the point  $(0, -3)$  is on the graph. We can obtain a second point by choosing a value for  $x$  and finding the corresponding value for  $y$ . Let  $x=1$ , then  $y=-2(1)^2-3(1)=-5$ . Thus, the point  $(1, -5)$  is also on the graph.

## **Chapter 3 Linear and Quadratic Functions**

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## **Chapter 3, Polynomial and Rational Functions - Section 3.1 ...**

Section 3.1 Quadratic Functions 315

Check Point 1 Graph the quadratic  
function Graphing a Quadratic Function  
in Standard Form Graph the quadratic

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function Solution We begin by finding values for and Step 1 Determine how the parabola opens. Note that the coefficient of is 1. Thus, this positive value tells us that the parabola opens upward.

### **Section - Miami-Dade County Public Schools**

section 3.2 exercise. Write an equation

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for the quadratic function graphed. 1. 2.  
3. 4. 5. 6. For each of the follow  
quadratic functions, find a) the vertex,  
b) the ...

### **3.2.2E: Quadratic Functions (Exercises) - Mathematics ...**

3.1: Solving Quadratic Equations:  
Monitoring Progress: p.94: Exercises:

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p.99: 3.2: Complex Numbers: Monitoring  
Progress: p.104: Exercises: p.108: 3.3:  
Completing the ...

## **Solutions to Algebra 2: A Common Core Curriculum ...**

Section 3.2: Quadratic Functions  
Recognizing Characteristics of  
Parabolas. The graph of a quadratic

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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 parabola opens upward. Finding the Domain and ...

## **Section 3.2: Quadratic Functions - Mathematics LibreTexts**



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## **Chapter 3, Polynomial and Rational Functions - Section 3.1 ...**

Solving Quadratic Equations Section 1.3

What is a Quadratic Equation? A

quadratic equation in  $x$  is an equation  
that can be written in the standard form:

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$ax^2 + bx + c = 0$  Where  $a, b,$  and  $c$  are real numbers and  $a \neq 0$ . Solving a Quadratic Equation by Factoring.

## **Quadratic Equations Section 1.3 - studylib.net**

3.2 Quadratic Functions 165 Section 3.2  
Quadratic Functions In this section, we will explore the family of 2<sup>nd</sup> degree

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polynomials, the quadratic functions. While they share many characteristics of polynomials in general, the calculations involved in working with quadratics is typically a little simpler, which makes

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E.Q.'s and their Standards: 1. How can

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you determine what is a quadratic function in the real world? MAFS.912.A-SSE.2.3, MAFS.912.F-IF.2.4 Answer: You can determine what a quadratic function in the real world by looking at or creating a graph.

## **Section 5: Quadratics Part 1**

6/7/2020 3.1 Quadratic Functions-Dejoan

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Andrews Write an equation in standard form of the parabola that has the same shape as the graph of  $f(x) = 10x^2$  or  $g(x) = -10x^2$ , but with the given maximum or minimum. Maximum = 11 at  $x = -5$  The graph of the desired parabola has a maximum value, so it opens downward. The quadratic function  $f(x) = a(x - h)^2 + k$ ,  $a \neq 0$ , is in standard

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## **3.1 Quadratic Functions-.53.docx - Instructor Florida Tech ...**

MAC 1105 Pre-Class Assignment:  
Graphing quadratic functions Read  
section 3.1 'Quadratic Functions' to  
prepare for class In this week's pre-  
requisite module, we covered the topics

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solving quadratic equations and finding the area and perimeter of a square. These are crucial skills needed for the conversation that we will be having this week about quadratic functions and graphs.



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