

QUADRATIC FUNCTIONS

The image is a collage of algebra notes and a large blue banner at the bottom. The notes are organized into sections, each with a title, a 'Name' field, and a 'Date' field.

- TOPIC: INTRODUCTION TO QUADRATICS**
Name: _____ Date: _____
A quadratic function is a function of the form $f(x) = ax^2 + bx + c$, where $a \neq 0$.
The graph of a quadratic function is a parabola.
- TOPIC: STANDARD FORM OF A QUADRATIC**
Name: _____ Date: _____
Standard form of a quadratic function is $y = a(x-h)^2 + k$, where (h, k) is the vertex of the parabola.
The graph of a quadratic function in standard form is a parabola with vertex (h, k) .
- TOPIC: INTRODUCTION TO GRAPHING QUADRATICS**
Name: _____ Date: _____
Graphing a quadratic function involves plotting points and connecting them to form a parabola.
The vertex of a parabola is the point where the parabola changes direction.
- TOPIC: STANDARD FORM AND X-INTERCEPTS**
Name: _____ Date: _____
The x-intercepts of a parabola are the points where the parabola crosses the x-axis.
The x-intercepts of a parabola in standard form can be found by setting $y = 0$ and solving for x .
- TOPIC: VERTEX FORM**
Name: _____ Date: _____
Vertex form of a quadratic function is $y = a(x-h)^2 + k$, where (h, k) is the vertex.
The vertex of a parabola is the point where the parabola changes direction.
- TOPIC: STANDARD FORM AND THE QUADRATIC FORMULA**
Name: _____ Date: _____
The quadratic formula is used to find the x-intercepts of a parabola in standard form.
The quadratic formula is $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$.

At the bottom of the collage is a large blue banner with the text **ALGEBRA 1 - UN** in white capital letters.

TOPIC: INTRODUCTION TO GRAPHING QUADRATICS Name: _____
 Date: _____

Graphing from a Table (in Standard Form)

While graphing the function $y = x^2$, the x -values were given. Why was it important to graph -15 , -10 , and -5 ? In other words, why would it be a problem to only use $0, 1$, and 2 (like we often do with linear functions)?

For the following graphs, complete the table, graph the parabola, and label the vertex, y -intercept, and x -intercept(s) where possible.

$y = x^2 - 3$

x	y
-3	
-2	
-1	
0	
1	
2	
3	

$y = x^2 + 4x + 3$

x	y
-3	
-2	
-1	
0	
1	
2	
3	

$y = x^2 + 2x + 3$

x	y
-3	
-2	
-1	
0	
1	
2	
3	

What was challenging about graphing the last one? Why was it difficult to find "good" x -values? What information would it help to know when choosing your x -values?

ALGEBRA 1 - UNIT 7

GUIDED NOTES WITH ANSWER KEYS

Algebra Unit 6 Quadratic Algebra L7

Lauren Gardner



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