

QUADRATIC FUNCTIONS

TOPIC: INTRODUCTION TO QUADRATICS Name _____ Date _____

Graphable function is _____

Its inverse function is _____

TOPIC: STANDARD FORM OF A QUADRATIC Name _____ Date _____

Standard form is _____

Standard form of a quadratic function is $y = a(x-h)^2 + k$, where a is the leading coefficient and (h, k) is the vertex.

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 , -12 , and 12 ? 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) if applicable.

TOPIC: STANDARD FORM AND X-INTERCEPTS Name _____ Date _____

Intercepts and quadrants

TOPIC: VERTEX FORM Name _____ Date _____

Vertex form

TOPIC: STANDARD FORM AND THE QUADRATIC FORMULA Name _____ Date _____

Quadratic formula

Standard form of a quadratic function is $y = ax^2 + bx + c$, where a is the leading coefficient, b is the coefficient of x , and c is the constant term.

Vertex form of a quadratic function is $y = a(x-h)^2 + k$, where a is the leading coefficient, h is the x-coordinate of the vertex, and k is the y-coordinate of the vertex.

Quadratic formula: $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

Discriminant: $b^2 - 4ac$

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

$y = x^2 - 3$

x	y
-4	
-3	
-2	
-1	
0	
1	
2	

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

x	y
-4	
-3	
-2	
-1	
0	
1	
2	

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

x	y
-4	
-3	
-2	
-1	
0	
1	
2	

What was challenging about graphing the function? 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

J Elliott



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