

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) where provided.

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, k) is the vertex, and a is the leading coefficient.

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) where provided.

$y = x^2 - 3$

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

Nihon Sūgakkai



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Kunisch, 2008-01-01 Lagrange multiplier theory provides a tool for the analysis of a general class of nonlinear variational problems and is the basis for developing efficient and powerful iterative methods for solving these problems This comprehensive monograph analyzes Lagrange multiplier theory and shows its impact on the development of numerical algorithms for problems posed in a function space setting The authors develop and analyze efficient algorithms for constrained optimization and convex optimization problems based on the augmented Lagrangian concept and cover such topics as sensitivity analysis convex optimization second order methods and shape sensitivity calculus General theory is applied to challenging problems in optimal control of partial differential equations image analysis mechanical contact and friction problems and American options for the Black Scholes model Edexcel Modular , 2010 This teacher s pack contains everything you need to deliver effective lessons in mathematics with confidence for students working at Grades D to A

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