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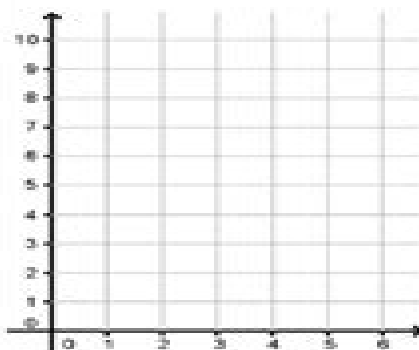
## Practice Worksheet: Graphing Quadratic Functions in Vertex Form

For #1-6, label the axis of symmetry, vertex, y-intercept, and at least three more points on the graph.

1)  $y = (x - 3)^2$

Axis of Symmetry is  $x = \underline{\hspace{2cm}}$ Vertex:  $(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$ 

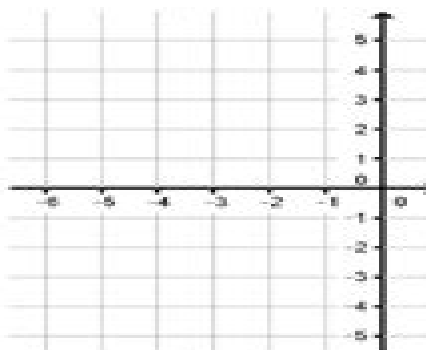
Opens up or down?

Slope to point one unit from the vertex is  $\underline{\hspace{2cm}}$ .y-intercept:  $(0, \underline{\hspace{2cm}})$ 

2)  $y = -(x + 3)^2 + 5$

Axis of Symmetry is  $x = \underline{\hspace{2cm}}$ Vertex:  $(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$ 

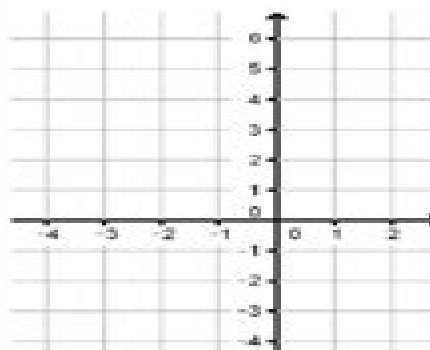
Opens up or down?

Slope to point one unit from the vertex is  $\underline{\hspace{2cm}}$ .y-intercept:  $(0, \underline{\hspace{2cm}})$ 

3)  $y = 2(x + 1)^2 - 3$

Axis of Symmetry is  $x = \underline{\hspace{2cm}}$ Vertex:  $(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$ 

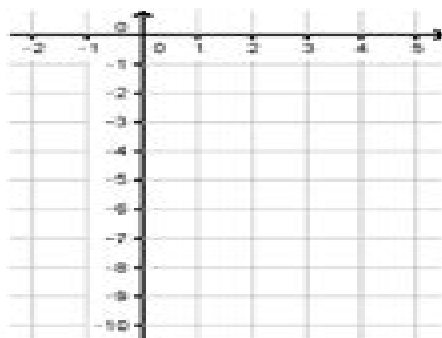
Opens up or down?

Slope to point one unit from the vertex is  $\underline{\hspace{2cm}}$ .y-intercept:  $(0, \underline{\hspace{2cm}})$ 

4)  $y = -2(x - 2)^2 - 1$

Axis of Symmetry is  $x = \underline{\hspace{2cm}}$ Vertex:  $(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$ 

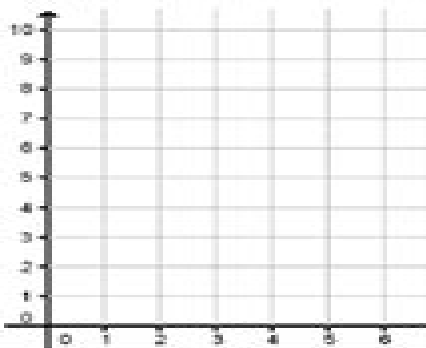
Opens up or down?

Slope to point one unit from the vertex is  $\underline{\hspace{2cm}}$ .y-intercept:  $(0, \underline{\hspace{2cm}})$ 

5)  $y = \frac{1}{2}(x - 3)^2 + 2$

Axis of Symmetry is  $x = \underline{\hspace{2cm}}$ Vertex:  $(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$ 

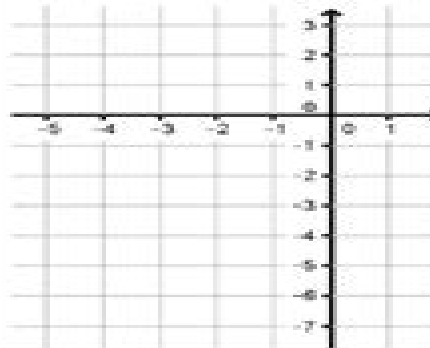
Opens up or down?

Slope to point one unit from the vertex is  $\underline{\hspace{2cm}}$ .y-intercept:  $(0, \underline{\hspace{2cm}})$ 

6)  $y = -\frac{1}{4}(x + 2)^2 + 1$

Axis of Symmetry is  $x = \underline{\hspace{2cm}}$ Vertex:  $(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$ 

Opens up or down?

Slope to point one unit from the vertex is  $\underline{\hspace{2cm}}$ .y-intercept:  $(0, \underline{\hspace{2cm}})$ 

# Graphing Quadratics Worksheet With Answers

**Why Interactive Staff**



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**Teaching in a Networked Environment** Allan Edward Bellman, 2006

**Teaching Mathematics in Grades 6 - 12** Randall E. Groth, 2012-08-10 Teaching Mathematics in Grades 6 12 by Randall E Groth explores how research in mathematics education can inform teaching practice in grades 6 12 The author shows preservice mathematics teachers the value of being a researcher constantly experimenting with methods for developing students mathematical thinking and connecting this research to practices that enhance students understanding of the material Ultimately preservice teachers will gain a deeper understanding of the types of mathematical knowledge students bring to school and how students thinking may develop in response to different teaching strategies

**The Elem Alg Irm W/Cd V. 2. 5** Why Interactive Staff, 2001-08

*Developing Skills in Algebra* J. Louis Nanney, John Laurence Cable, 1992

*Quadratic Equations and Functions Workbook* Norman Balason, 2021-06-19 The QUADRATIC EQUATIONS AND FUNCTIONS WORKBOOK is a resource that Algebra 2 students can use to practice solving quadratic equations writing quadratic equations graphing quadratic functions writing quadratic functions and solving word problems that involve quadratic equations and functions There are nine sections in this workbook Example problems with step by step solutions precede each type of problem for sections one through nine Students should study these examples before starting the problems This workbook also contains the step by step solutions for all problems Section 1 begins with problems for students to use square roots to solve quadratic equations in simplest terms The denominator for answers is rationalized In Section 2 students solve quadratic equations by factoring and by using the Zero Product Property Section 3 includes problems where students solve quadratic equations by completing the square This workbook contains the derivation of the Quadratic Formula In Section 4 students use the Quadratic Formula

to solve quadratic equations This workbook includes the derivation of the sum and product of roots for a quadratic equation in standard form Section 5 is where students write quadratic equations given their roots Students can use the Zero Product Property or the sum and product of its roots to do these problems In Section 6 students explain why the graph of the quadratic function which is called a Parabola will open upward or downward Then they determine if the graph will have a minimum or a maximum Section 7 is where students graph quadratic functions that are in standard factored and vertex form In Section 8 students use the coordinates for points on the graph of a quadratic function to write the quadratic function in factored vertex and standard form Section 9 is where students solve word problems that involve quadratic equations and quadratic functions Finally there are step by step solutions for all problems

**ABOUT THE AUTHOR** Teaching Experience Norman just finished his 27th year as a high school math teacher and he is looking forward to the 2021 2022 school year During his teaching career he has taught Algebra 1 Algebra 2 Geometry and Pre Calculus Education Norman earned a M Ed from Chaminade University of Honolulu and a B A in Mathematics from the University of Hawaii at Manoa Personal Norman is a Navy Veteran He enlisted in the United States Navy upon his high school graduation He worked as an F 14 Tomcat plane captain not a pilot for the VF 41 Black Aces while they were out at sea on the aircraft carrier U S S Nimitz He is proud to have served his country while traveling the world and developed life long friendships through unforgettable experiences Norman enjoys his free time reading biographies listening to music playing the guitar watching finance and investing videos and hanging out with family and friends

**The Software Encyclopedia** ,1988 *Quadratic Equations and Curves* Leon J. Ablon,1981 **Graphing Calculator Strategies: Algebra** Pamela H. Dase,2006-12-04 Integrate TI Graphing Calculator technology into your algebra instruction with this award winning resource book Perfect for grades 6 12 this resource includes lessons problem solving practice and step by step instructions for using graphing calculator technology 238pp plus Teacher Resource CD with PDF files of the tables templates activity sheets and student guides for TI 83 84 Plus Family and TI 73 Explorer This resource is correlated to the Common Core State Standards is aligned to the interdisciplinary themes from the Partnership for 21st Century Skills and supports core concepts of STEM instruction

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