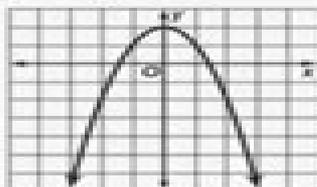


**9-1****Practice****Graphing Quadratic Functions**

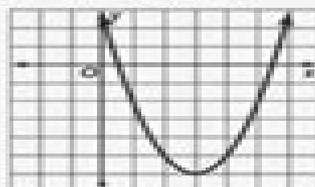
Use a table of values to graph each function. Determine the domain and range.

1.  $y = -x^2 + 2$



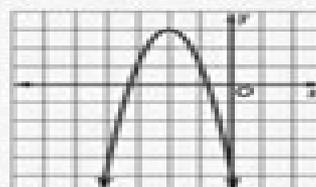
**D:** {all real numbers}  
**R:**  $\{y \mid y \leq 2\}$

2.  $y = x^2 - 6x + 3$



**D:** {all real numbers}  
**R:**  $\{y \mid y \geq -6\}$

3.  $y = -2x^2 - 8x - 5$



**D:** {all real numbers}  
**R:**  $\{y \mid y \leq 3\}$

Find the vertex, the equation of the axis of symmetry, and the  $y$ -intercept of the graph of each function.

4.  $y = x^2 - 9$

**(0, -9);  $x = 0$ ; (0, -9)**

5.  $y = -2x^2 + 8x - 5$

**(2, 3);  $x = 2$ ; (0, -5)**

6.  $y = 4x^2 - 4x + 1$

**(0.5, 0);  $x = 0.5$ ; (0, 1)**

Consider each equation. Determine whether the function has a *maximum* or a *minimum* value. State the maximum or minimum value. What are the domain and range of the function?

7.  $y = 5x^2 - 2x + 2$

**min.; (0.2, 1.8);**

**D:** {all real numbers},  
**R:**  $\{y \mid y \geq 1.8\}$

8.  $y = -x^2 + 5x - 10$

**max.; (2.5, -3.75);**

**D:** {all real numbers},  
**R:**  $\{y \mid y \leq -3.75\}$

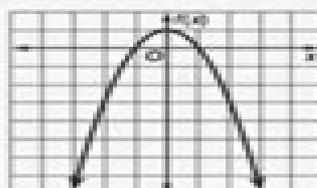
9.  $y = \frac{3}{2}x^2 + 4x - 9$

**min.;  $(-1\frac{1}{3}, -11\frac{2}{3})$ ;**

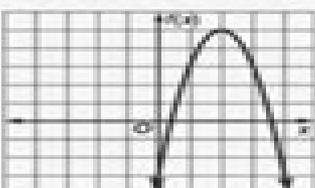
**D:** {all real numbers},  
**R:**  $\{y \mid y \geq -11\frac{2}{3}\}$

Graph each function.

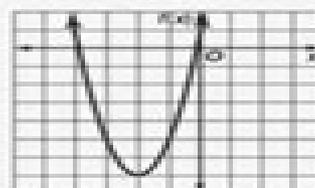
10.  $f(x) = -x^2 + 1$



11.  $f(x) = -2x^2 + 8x - 3$



12.  $f(x) = 2x^2 + 8x + 1$



13. **BASEBALL** The equation  $h = -0.005x^2 + x + 3$  describes the path of a baseball hit into the outfield, where  $h$  is the height and  $x$  is the horizontal distance the ball travels.

- What is the equation of the axis of symmetry?  **$x = 100$**
- What is the maximum height reached by the baseball? **53 ft**
- An outfielder catches the ball three feet above the ground. How far has the ball traveled horizontally when the outfielder catches it? **200 ft**

# Algebra 2 Quadratic Functions Answers Prentice Hall

**Xiang Xie**



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section exercises are graded into three consecutive groups a The first exercises are routine modelled almost exactly on the exam ples these are intended to give students confidence b Next come exercises that are still based directly on the examples and text but which may have variations of wording or which combine different ideas these are intended to train students to think for themselves c The last exercises in each set are difficult These are marked with a star and some will challenge even the best students Difficult does not necessarily mean theoretical often a starred problem is an interesting application that requires insight into what calculus is really about The exercises come in groups of two and often four similar ones **EI-Hi**

**Textbooks & Serials in Print, 2003** ,2003 *Algebra 2* Margaret L. Lial,John Hornsby,Terry McGinnis,2005-08

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Scherpen,2015-07-08 This treatment of modern topics related to mathematical systems theory forms the proceedings of a workshop Mathematical Systems Theory From Behaviors to Nonlinear Control held at the University of Groningen in July 2015 The workshop celebrated the work of Professors Arjan van der Schaft and Harry Trentelman honouring their 60th Birthdays The second volume of this two volume work covers a variety of topics related to behavioral systems and robust control After giving a detailed account of the state of the art in the related topic each chapter presents new results and discusses new directions As such this volume provides a broad picture of the theory of behavioral systems and robust control for scientists and engineers with an interest in the interdisciplinary field of systems and control theory The reader will benefit from the expert participants ideas on exciting new approaches to control and system theory and their predictions of future directions for the subject that were discussed at the workshop **The Math Teacher's Book of Lists** Judith A.

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