

Online Library
Study Guide And
Intervention
Study Guide
Graphing
And
Quadratic
Intervention
Graphing
Quadratic
Functions

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Study Guide And
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4-1 Study Guide and

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(continued) Graphing
Quadratic Functions
Maximum and

Minimum Values The
y-coordinate of the
vertex of a quadratic
function is the
maximum value or
minimum value of the
function. Maximum or
Minimum Value of a
Quadratic Function

The graph of $f(x) = 2ax$

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$+ bx + c$, where $a \neq 0$,
opens up and has a
minimum when $a > 0$.

Functions

Graphs of Polynomial
Functions - Weebly
©Glencoe/McGraw-
Hill 2 Glencoe Algebra
2 Formulas A formula
is a mathematical
sentence that uses
variables to express
the relationship
between certain

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Quantities. If you know
the value of every
variable except one in
a formula, you can use
substitution and the
order of operations to
find the value of the

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PERIOD 5-3 Study

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(continued) Graphing
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NAME _____

DATE _____ PERIOD

_____ 6-16-1 Example

a. $f(x) = 23x^2 + 6x + 7$ For this function, $a = 3$ and $b = 6$.

Since $a > 0$, the graph opens up, and the function has a

minimum value. The minimum value is the y-coordinate of the vertex. The x-

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coordinate of the

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2-7 Study Guide and
Intervention Solving
Equations by
Graphing Find

Intercepts The
intercepts of a graph
are points where the
graph touches or

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crosses an axis. The y -intercept is the y -coordinate of a point where the graph intersects the y -axis. Similarly, the x -intercept is the x -coordinate of a point where the graph intersects the x -axis.

NAME DATE

PERIOD 5-6 Study

Guide and

Page 10/33

Online Library
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Graphing
Quadratic
Functions
Analyzing Graphs of
Polynomial Functions.
Chapter 4 / Lesson 3.
... The graph is going
up, ... Study Guide &
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PERIOD 9-1 Study

Page 11/33

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Guide and
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(continued)

Polynomial Functions

5-3 Graphs of

Polynomial Functions

Determine whether the

graph represents an

odd-degree polynomial

or an even-degree

polynomial. Then state

the number of real

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zeros. As $x \rightarrow -\infty$, $f(x) \rightarrow -\infty$ and as $x \rightarrow +\infty$, $f(x) \rightarrow +\infty$, so it is an odd-degree polynomial function.

Answers (Anticipation
Guide and Lesson 6-1)
3-1 Study Guide and
Intervention Solving
Systems of Equations
Solve Systems
Graphically A system
of equations is two or

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more equations with
the same variables.

You can solve a system
of linear equations by
using a table or by
graphing the equations
on the same coordinate
plane. If the lines
intersect, the solution
is that intersection
point.

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PERIOD 4-2 Study

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Guide and
Intervention

3-2 Study Guide and

Intervention Solving

Linear Equations by

Graphing Solve by

Graphing You can

solve an equation by

graphing the related

function. The solution

of the equation is the

x -intercept of the

function. Example:

Solve the equation $2x -$

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$2 = -4$ by graphing.
First set the equation
equal to 0. Then
replace 0 with rx).

7-1 Study Guide and
Intervention - Lomira
Study Guide and
Intervention
(continued) Graphing
Inequalities in Two
Variables Solve Linear
Inequalities We can
use a coordinate plane

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to solve inequalities
with $x + 2 > -1$. Step 1
First graph the
boundary, which is the
related function.

Replace the inequality
sign with an equals
sign, and get 0 on a
side by itself. $2x + 2 =$
 -1

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d. Graph the function.

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x y O (-1, -1) $x = -1$

Graphing
Exercises Consider
each equation.

Determine whether the
function has maximum
or minimum value.

State the maximum or
minimum value and
the domain and range
of the function. Find
the equation of the axis
of symmetry. Graph
the function. 9-1 Study
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(continued) Graphing

Quadratic...

Functions

Answers (Anticipation
Guide and Lesson 3-1)

Study Guide and
Intervention

(continued) Graphing
Equations in Slope-
Intercept Form

Modeling Real-World
Data MEDIA Since

1999, the number of

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music cassettes sold
has decreased by an
average rate of 27
million per year. There
were 124 million music
cassettes sold in 1999.
a.

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PERIOD 7-1 Study

Guide and

Intervention

8-4 Study Guide and

Intervention Graphing

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Rational Functions
Graphing
Vertical and

Horizontal Asymptotes

Rational Function A

function with an
equation of the form $f(x) = \frac{p(x)}{q(x)}$, where
 $p(x)$ and $q(x)$ are
polynomial expressions
and $q(x) \neq 0$ Domain

The domain of a
rational function is
limited to values for
which the function is

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defined.

1-7 Study Guide and
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6-1 Study Guide and
Intervention

(continued) Graphing
Systems of Equations
Solve by Graphing
One method of solving
a system of equations
is to graph the
equations on the same
coordinate plane.

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Example: Graph each system and determine the number of solutions that it has. If it has one solution, name it. The graphs intersect.

8-4 Study Guide and
Intervention - Lomira

Graph the equation $y - 2x = 1$ by making a table. Solve the equation for y . $y - 2x =$

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Graphing
Quadratic
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1 . Original equation. $y - 2 + = 1 +$ Add $2x$ to each side. $y = 2 + 1$.

Simplify. Select five values for the domain and make a table.

Then graph the ordered pairs and draw a line through the points. y 0 x $(2, 0)$ $(0, 3)$ 3-1. Study Guide and Intervention (continued ...

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Graphs of Polynomial Functions Determine consecutive integer values of x between which each real zero of $f(x) = 2x^4 - x^3 - 5$ is located. Then draw the graph. Make a table of values. Look at the values of $f(x)$ to locate the zeros. Then use the

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points to ... Study
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Intervention Analyzing
Graphs of Polynomial

Functions Example 5-4
between 0 ...

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PERIOD 3-1 Study
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Graph Linear

Equations The graph
of a linear equations

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represents all the solutions of the

equation. An x -

coordinate of the point

at which a graph of an

equation crosses the x -

axis is an x -intercept.

A y -coordinate of the

point at which a graph

crosses the y -axis is

called a y -intercept.

Graph $3x + 2y = 2.6$

by using the x -and y -

intercepts ...

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Graphing
Quadratic
Answers (Anticipation
Guide and Lesson 4-1)

Chapter 4-11 Glencoe
Algebra 2 Study Guide
and Intervention

Solving Quadratic
Equations by

Graphing Solve

Quadratic Equations

Quadratic Equation A

quadratic equation has

the form $ax^2 + bx + c =$

0, where $a \neq 0$. Roots of

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Quadratic
Functions

a Quadratic Equation
solution(s) of the
equation, or the zero(s)
of the related
quadratic function

3-1 Study Guide and
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Exercises Use the
graph at the right to
determine whether
each system is
consistent or
inconsistent and if it is

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independent or

dependent. 1. $y = -3$ 2.

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

3. $y = -3$ 4. $2x^2 + 6x + 2$

$y = 4$ 3. x $y =$ Study

Guide and

Intervention Graphing

Systems of Equations x

$y = 0$ $y = -x - 3$ $3x + y = 3$

$2x + 2y = -6$ $2x + 2y$

$= 4$ $y = x - 1$ $x \dots$

6-1 Study Guide and
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Online Library Study Guide And

Intervention Graphing Exponential Functions Exponential Growth

An exponential growth function has the form $y = a \cdot b^x + k$, where $b > 1$. The graphs of exponential equations can be transformed by changing the value of the constants a , h , and k in the exponential equation: $f(x) = -a \cdot b^{x-h} + k$

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7-1 Study Guide and
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Exponential Functions
Exponential Growth

An exponential growth
function has the form
 $y = bx$, where $b > 1$.

The graphs of
exponential equations
can be transformed by

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Functions

changing the value of the constants a , h , and k in the exponential equation: $(xf) = abx - h + k$.

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