

QUADRATICS UNIT

**11 DAY
UNIT**

Lesson	Skills Covered
CCSS: HSA-REI.4, HSF-IF.7, HSF-IF.8 TEKS: A1.6.B, A1.6.C, A1.7.A, A1.8.A	
Unit Prep (pgs. 6 – 13)	- Weekly Warm Up Sheet - Exit Tickets - Lesson Plan Template
(1) Quadratic Equations : The Basics (pgs. 14 – 18)	1 Warm Up - Quadratic Equations The Basics Notes - Quadratic Equations The Basics Practice Worksheet 1 Exit Ticket
(2) Solving Quadratic Equations (pgs. 19 – 33)	4 Warm-Ups - Solving Quadratic Equations by Factoring Notes (2 pages) - Solving Quadratic Equations by Factoring Practice - Solving with the Quadratic Formula Notes - Solving with the Quadratic Formula Practice - Solving Quadratic Equations by Completing the Square Notes ($a = 1$) - Solving Quadratic Equations by Completing the Square Notes ($a > 1$) - Solving Quadratic Equations by Completing the Square Practice - Solving Quadratic Equations Activity - Solving Quadratic Equations Quiz 4 Exit Tickets
(3) Graphing Quadratic Equations (pgs. 34 – 47)	3 Warm-Ups - Graphing Quadratic Equations Notes (2 pages) - Graphing Quadratic Equations Practice - Writing Quadratic Equations Notes (2 pages) - Writing Quadratic Equations Practice (2 pages) - Writing and Graphing Quadratic Equations Quiz 3 Exit Tickets
End of Unit (pgs. 48 – 51)	- Study Guide - Unit Exam

Algebra 1 Curriculum Pacing Calendar

UNIT 9: QUADRATIC EQ

Day 1 Topic: Unit Prep Resources: Unit 9 Pre-Assessment	Day 2 Topic: Quadratic Equations: The Basics Resources: 1 Warm Up - Quadratic Equations The Basics Notes - Quadratic Equations The Basics Practice Worksheet 1 Exit Ticket
Day 4 Topic: Solving Quadratic Equations Resources: - L2 Warm Up 2 - Solving with the Quadratic Formula Notes - Solving with the Quadratic Formula Practice - Exit Ticket 2	Day 5 Topic: Solving Quadratic Equations Resources: - L2 Warm Up 3 - Solving Quadratic Equations by Completing the Square Notes - Solving Quadratic Equations by Completing the Square Practice - Exit Ticket 3

Algebra 1 Curriculum Pacing Calendar

UNIT 9: QUADRATIC EQUATIONS

Day 10 Topic: Unit Review Resources: • Study Guide and Review • Quadratics Stations	Day 11 Topic: End of Unit Resources: • Unit 9 Assessment
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NOTES

Lesson Plan

QUADRATICS UNIT

Standard(s): _____ Date(s): _____

Student Materials:

- | | | | |
|--|-------------------------------------|--------------------------------------|--------------------------------|
| ☐ Calculator | ☐ Scissors | ☐ Compass | ☐ _____ |
| ☐ Colored pencils | ☐ Glue | ☐ Graph paper | ☐ _____ |
| ☐ Ruler | ☐ Protractor | ☐ Dry erase | ☐ _____ |

Lesson Progression:

lie down

Unit Plan

QUADRATICS UNIT

Objectives	Vocabulary
- Distinguish between quadratic and non quadratic equations. - Identify the axis of symmetry, roots and vertex of quadratic equations on a coordinate plane. - Calculate the axis of symmetry, roots and vertex of quadratic equations. - Graph quadratic equations on a coordinate plane and identify the roots. - Write quadratic equations given a graph, the roots, or the vertex and a point. - Solve quadratic equations in a variety of ways including factoring, completing the square and using the quadratic formula.	- Axis of Symmetry - Parabola - Quadratic Equation - Roots - Vertex
	Standards



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Teacher Resources

[illegible]

Name _____
Date _____ Class _____

Warm Up #1

Lesson 1 : Quadratic Equations - The

Skill : Factoring Polynomials

- | | |
|--|--|
| 1. Factor the common factor from $42y^4 + 70y^2 + 49y$. | 2. Factor the common factor from $16n^3 - 16n - 8$. |
| 3. Factor completely $2m^3 + m^2 + 2m$. | 4. Factor completely $4x^3 - 3x^2 +$ |

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Name _____
Date _____ Class _____

Warm Up #1

Lesson 1 : Quadratic Equations - The

Skill : Factoring Polynomials

- | | |
|--|--|
| 1. Factor the common factor from $42y^4 + 70y^2 + 49y$. | 2. Factor the common factor from $16n^3 - 16n - 8$. |
|--|--|

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Name _____
Date _____ Class _____

Warm Up #1

Lesson 2 : Solve Quadratic Equations

Skill : Solve by Completing the Square

- | | |
|-------------------------|-------------------------|
| 1. $n^2 + 14n + 27 = 3$ | 2. $b^2 + 6b - 37 = 3$ |
| 3. $n^2 + 14n + 27 = 3$ | 4. $3x^2 + 6x - 50 = 4$ |

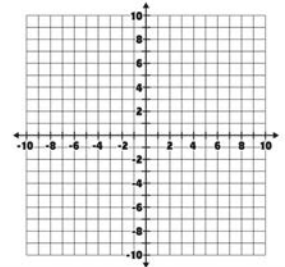
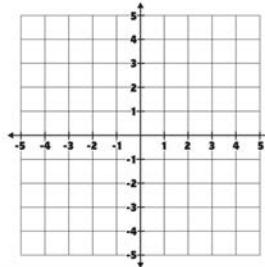
Name _____
Date _____ Class _____

Warm Up #1

Lesson 2 : Solve Quadratic Equations

Skill : Sketching Parabolas

- Sketch a parabola with a minimum of $(-1, -4)$ and roots of $(-2, 0)$ and $(0, 0)$.
- Sketch a parabola with a maximum of $(4, 4)$ and roots of $(1, 0)$ and $(7, 0)$.



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Name _____
Date _____ Class _____

Warm Up #2

Lesson 2 : Solve Quadratic Equations

Skill : Solving Quadratic Equations by Factoring

- | | |
|-------------------|-----------------------|
| 1. $n^2 + 5n = 6$ | 2. $p^2 = 32 + 4p$ |
| 3. $n^2 + 5n = 6$ | 4. $4n^2 = -12 - 16n$ |

Name _____
Date _____ Class _____

Warm Up #3

Lesson 2 : Solve Quadratic Equations

Skill : Solving with the Quadratic Formula

- | | |
|---------------------|-----------------------|
| 1. $k^2 = -5k + 84$ | 2. $12p^2 - 12p = -6$ |
| 3. $4x^2 - 48 = 4x$ | 4. $6n^2 = -1 - 6n$ |

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Name _____
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Warm Up #3

Lesson 2 : Solve Quadratic Equations

Skill : Solve by Completing the Square

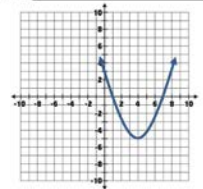
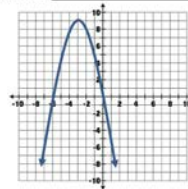
Name _____
Date _____ Class _____

Warm Up #3

Lesson 3 : Graphing Quadratic Equations

Skill : Writing Quadratic Equations

- | | |
|---|---|
| 1. Vertex = _____
Axis of Symmetry = _____
Roots = _____ and _____
Vertex Form = _____
Standard Form = _____
Factored Form = _____ | 2. Vertex = _____
Axis of Symmetry = _____
Roots = _____ and _____
Vertex Form = _____
Standard Form = _____
Factored Form = _____ |
|---|---|



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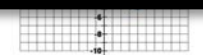
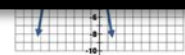
Name _____
Date _____ Class _____

Warm Up #3

Lesson 3 : Graphing Quadratic Equations

Skill : Writing Quadratic Equations

- | | |
|---|---|
| 1. Vertex = _____
Axis of Symmetry = _____
Roots = _____ and _____
Vertex Form = _____
Standard Form = _____
Factored Form = _____ | 2. Vertex = _____
Axis of Symmetry = _____
Roots = _____ and _____
Vertex Form = _____
Standard Form = _____
Factored Form = _____ |
|---|---|



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Warm Ups

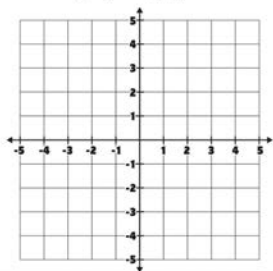
Name _____
Date _____ Class _____

Exit Ticket #1

Lesson 1 : Quadratic Equations - The

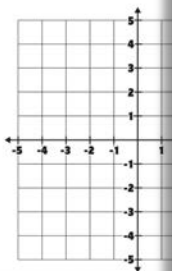
Skill : Sketching Parabolas

1. Sketch a parabola with a maximum of (2, 3) and roots of (0, 0) and (4, 0).



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2. Sketch a parabola with a maximum of (2, 3) and no roots.



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Name _____
Date _____ Class _____

Exit Ticket #1

Lesson 1 : Quadratic Equations - The

Skill : Sketching Parabolas

1. Sketch a parabola with a maximum of (2, 3) and roots of (0, 0) and (4, 0).



2. Sketch a parabola with a maximum of (2, 3) and no roots.



Name _____
Date _____ Class _____

Exit Ticket #3

Lesson 1 : Solve by Quadratic Equations

Skill : Solve by Completing the Square

1. $n^2 + 14n - 42 = 7$

2. $p^2 - 20p - 16 = 5$

3. $7x^2 + 14x - 27 = -6$

4. $9r^2 + 18r - 27 = -4$

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Date _____ Class _____

Exit Ticket #1

Lesson 1 : Solve by Quadratic Equations

Skill : Solve Quadratic Equations {Any Method}

1. $n^2 + 32 = 12n$

2. $4a^2 - 12 = 8a$

3. $n^2 + 14n - 42 = 7$

4. $2x^2 + 8x - 67 = -9$

Name _____
Date _____ Class _____

Exit Ticket #1

Lesson 2 : Solve Quadratic Equations

Skill : Solve by Factoring

1. $a^2 + 5a = 0$

2. $x^2 - 2x - 35 = 0$

3. $8m^2 + 31m = -21$

4. $3x^2 - 8x = 35$

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Date _____ Class _____

Exit Ticket #2

Lesson 2 : Solve Quadratic Equations

Skill : Solving with the Quadratic Formula

1. $3n^2 = 115 - 8n$

2. $5x^2 - 51 = 2x$

4. $r^2 + 5r - 54 = 12$

Name _____
Date _____ Class _____

Exit Ticket #1

Lesson 3 : Graphing Quadratic Equations

Skill : Graphing Quadratic Equations

1. $y = 4x^2 - 24x + 34$

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

$a = \underline{\hspace{1cm}} \quad b = \underline{\hspace{1cm}} \quad c = \underline{\hspace{1cm}}$

$a = \underline{\hspace{1cm}} \quad b = \underline{\hspace{1cm}} \quad c = \underline{\hspace{1cm}}$

$h = \underline{\hspace{1cm}} \quad k = \underline{\hspace{1cm}}$

$h = \underline{\hspace{1cm}} \quad k = \underline{\hspace{1cm}}$

y-intercept = $\underline{\hspace{1cm}}$

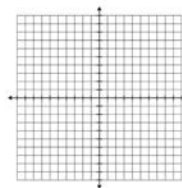
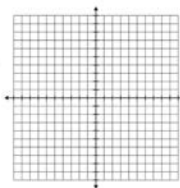
y-intercept = $\underline{\hspace{1cm}}$

x-intercepts = $\underline{\hspace{1cm}}$

x-intercepts = $\underline{\hspace{1cm}}$

and $\underline{\hspace{1cm}}$

and $\underline{\hspace{1cm}}$



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Name _____
Date _____ Class _____

Exit Ticket #2

Lesson 3 : Graphing Quadratic Equations

Skill : Writing Equations in Standard Form.

1. Re-write in standard form.
 $y = -2(x + 4)^2 - 3$

2. Re-write in standard form.
 $-\frac{1}{2}(y + 3) = (x + 3)^2$

Exit Tickets

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Name _____
Date _____ Class _____

Solving Quadratic Equations By Factoring Notes

Solving by Quadratic Equations by Factoring

1. Re-write the equation so the left side is in the form _____.
2. _____ the left side of the equation.
3. Use the _____ product property.
4. Solve for x .

Examples

$$\begin{array}{ll} 1) & x^2 - x = 12 \\ & x^2 - x - 12 = 0 \\ & (x-4)(x+3) = 0 \end{array} \quad \begin{array}{ll} 2) & 10g^2 + 19g + 6 = 0 \\ & (2g+3)(5g+2) = 0 \\ & \quad \quad \quad 3 \quad \quad 2 \end{array}$$

Name _____
Date _____ Class _____

Solving Quadratic Equations By Completing the Square Notes

Solving by Quadratic Equations by Completing the Square when $a = 1$.

If you can't solve a quadratic equation by factoring, you can try completing the square.

First, how do you complete the square?

- Know that $x^2 + bx + c = (x+d)^2 + e$ with $d = \frac{b}{2}$ and $e = c - \frac{b^2}{4}$
- Add $\left(\frac{b}{2}\right)^2$ to both bx and to c .
- Simplify.

Example: $n^2 - 10n - 19$ **Try it:** $x^2 + 20x + 44$

$$\begin{aligned} & \left(n^2 - 10n + \left(\frac{-10}{2} \right)^2 \right) - \left(19 + \left(\frac{-10}{2} \right)^2 \right) \\ & (n^2 - 10n + 25) - (19 + 25) \\ & (n-5)^2 - 44 \\ & \text{check: } (n-5)^2 - 44 \\ & n^2 - 10n + 25 - 44 \\ & n^2 - 10n - 19 \end{aligned}$$

Steps for Solving Quadratic Equations by Completing the Square:

1. Move the term without a variable to the _____ side of the equation.
2. Complete the square on the left side of the equation. Add the same value to the right side.
3. Take the _____ of both sides of the equation.

Name _____
Date _____ Class _____

Writing Quadratic Equations Notes

The Three Forms

- 1) Standard form: $y = ax^2 + bx + c$ where the a , b , and c are known values and a cannot be _____.
- 2) Factored form: $y = a(x - r_1)(x - r_2)$ where r_1 and r_2 are the _____.
- 3) Vertex form: $y = a(x - h)^2 + k$ where (h, k) is the _____ and h is the _____.

Writing Quadratic Equations When Given Roots

- When given the roots, or the solutions, to a quadratic equation, you can write an equation in factored form by substituting them in.
- Take a look:

- A quadratic function has roots of $x = -4$ and $x = 2$.

- Substituting into the factored form of $(x + \underline{\hspace{1cm}})(x - \underline{\hspace{1cm}}) = 0$

simplify the left side using FOIL: $x^2 + \underline{\hspace{1cm}}x - \underline{\hspace{1cm}} = 0$

and $x = 3/2$.

factored form of $(\underline{\hspace{1cm}})(\underline{\hspace{1cm}}) = 0$

simplify the left side using FOIL: $\underline{\hspace{1cm}} = 0$

Name _____
Date _____ Class _____

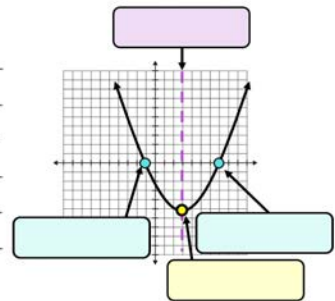
Quadratic Equations The Basics Notes

About

- A quadratic equation is one which the highest power of a variable is a _____.
- Quadratic equations form a _____ when graphed.

Key Terms

- Vertex - _____



Label the parts of a quadratic equation when graphed (above).

A quadratic equation can be written in the following forms:

Standard Form: _____

Vertex Form: _____

Name _____
Date _____ Class _____

Graphing Quadratic Equations Notes

Before you Begin

- Before you can graph quadratic equations, you have to be able to use the equation to find key points to use when you graph.
- Standard form of a quadratic equation is $f(x) = \underline{\hspace{1cm}}$

Axis of Symmetry

The _____ is the _____ that runs directly down the

graph. If the parabola were to be folded in half along the axis of symmetry, the two halves would match up.

To find the axis of symmetry, input the values for b and a into the equation $x = -\frac{b}{2a}$ and solve for x .

The _____ or _____ of a parabola when it is graphed on a coordinate plane.

A coordinate pair, where the value of x is the _____ and the value of y is the _____, is found by substituting the value of _____ into the equation and solving for _____.

Quadratic equations are also known as the _____ or the _____.

Roots are found by solving the quadratic equation. You can solve by:

If a quadratic equation has no roots, it means the parabola will not _____

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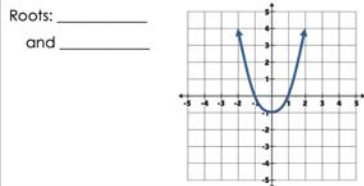
Notes

Name _____
Date _____ Class _____

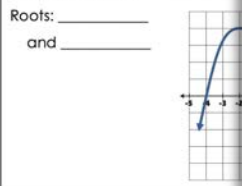
Quadratic Equations The Basics Practice

Directions - Identify the vertex, roots, axis of symmetry and whether the vertex represents a maximum or minimum for each graphed parabola.

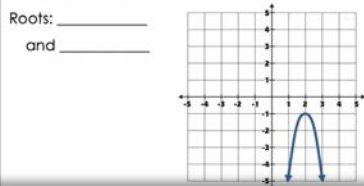
1. Vertex: _____
Is the vertex the minimum or maximum? _____
Axis of Symmetry: _____



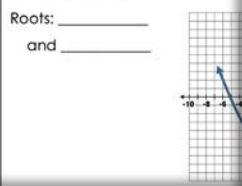
2. Vertex: _____
Is the vertex the minimum or maximum? _____
Axis of Symmetry: _____



3. Vertex: _____
Is the vertex the minimum or maximum? _____
Axis of Symmetry: _____



4. Vertex: _____
Is the vertex the minimum or maximum? _____
Axis of Symmetry: _____



Name _____
Date _____ Class _____

Graphing Quadratic Equations Practice

Directions: Sketch the graph of each equation.

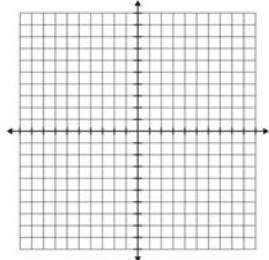
1. $y = x^2 + 6x - 12$

$a =$ _____ $b =$ _____ $c =$ _____

$h =$ _____ $k =$ _____

y -intercept = _____

x -intercepts = _____ and _____



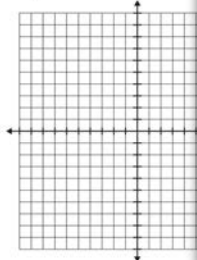
2. $y = 2x^2 + 12x + 22$

$a =$ _____ $b =$ _____ $c =$ _____

$h =$ _____ $k =$ _____

y -intercept = _____

x -intercepts = _____ and _____



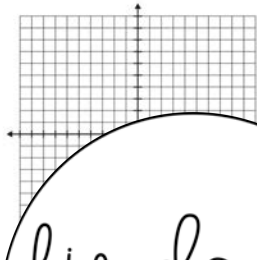
3. $y = -\frac{1}{2}x^2 + 4x - 11$

$a =$ _____ $b =$ _____ $c =$ _____

$h =$ _____ $k =$ _____

y -intercept = _____

x -intercepts = _____ and _____



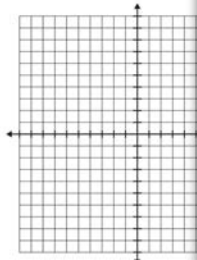
4. $y = x^2 + 6x + 13$

$a =$ _____ $b =$ _____ $c =$ _____

$h =$ _____ $k =$ _____

y -intercept = _____

x -intercepts = _____ and _____



Name _____
Date _____ Class _____

Solving with the Quadratic Formula Practice

Directions: Solve each equation using the quadratic formula.

1. $4k^2 - 6k = 88$

2. $x^2 = 70 - 3x$

3. $3j^2 = -8j + 115$

4. $4x^2 + 8 = 12x$

5. $k^2 + 2 = -3k$

6. $x^2 + 9x = 112$

7. $3y^2 - 60 = -3y$

8. $2m^2 - 12 = 10m$

launched from a platform. It's the ground in feet after t seconds the equation $h(t) = -6t^2 + 20t + 4$.

the maximum height of the

was the rocket in the air?

many seconds will the rocket be

A sneaker company can model its profit using the function $p(x) = -80x^2 + 480x - 570$, where x is the price of a pair of sneakers (in tens of dollars).

12) At what price for the sneakers will the company maximize their profit?

13) How much will they earn at that price?

Writing Quadratic Equations Practice

For #5 - 8: Write an equation in all three forms for each parabola.

5. Vertex = _____

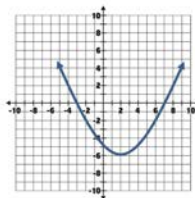
Axis of Symmetry = _____

Roots = _____ and _____

Vertex Form = _____

Standard Form = _____

Factored Form = _____



6. Vertex = _____

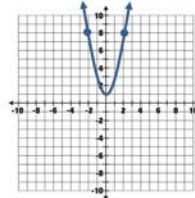
Axis of Symmetry = _____

Roots = _____ and _____

Vertex Form = _____

Standard Form = _____

Factored Form = _____



7. Vertex = _____

Axis of Symmetry = _____

Roots = _____ and _____

Vertex Form = _____

Standard Form = _____

Factored Form = _____

8. Vertex = _____

Axis of Symmetry = _____

Roots = _____ and _____

Vertex Form = _____

Standard Form = _____

Factored Form = _____

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Worksheets

Name: _____ Date: _____



QUADRATICS STATIONS

Station 4 - Solve using the quadratic formula

1. _____ 2. _____ 3. _____
4. _____ 5. _____ 6. _____

Station 5 - Solve by graphing

1. 2.

STATION 3

QUADRATICS

Solve each equation by completing the square.

- 1) $x^2 + 14x - 38 = 0$ 2) $x^2 - 9x + 8 = 0$

Name: _____ Date: _____ COLORING PAGE

FACTORING QUADRATIC EXPRESSIONS

DIRECTIONS: Factor each expression. Find your answer in one of the three columns. Find the problem number on the coloring page and color each section with the number the color that corresponds to your answer.

#	PROBLEM	ANSWER 1	ANSWER 2	ANSWER 3
1	$x^2 - 7x - 18$	$(x - 9)(x + 2)$ YELLOW	$(x - 9)(x - 2)$ ORANGE	$(x + 9)(x + 2)$ BLUE
2	$x^2 - 9x + 8$	$(x - 1)(x - 8)$ RED	$(x - 4)^2$ PINK	
3	$7x^2 + 9x$	$x(7x + 9)$ BLUE	Not Possible BLACK	
4	$5x^2 - x - 18$	$(x + 9)(5x - 2)$ YELLOW	$(5x + 9)(x - 2)$ BLACK	
5	$x^2 + 5x + 4$	$(x - 1)(x + 4)$ BLACK	$(x + 1)(x + 5)$ WHITE	

12x + 32 = 0

4) $x^2 + 10x - 2 = 0$

Name _____
Date _____ Class _____

Solving Quadratic Equations Activity

DIRECTIONS: Solve each equation. Find your answer on one of the strips cut from the bottom of the page and place it on top of the equation. When finished, glue down the strips or take a photo to submit.

1) $p^2 - 2p = -1$

2) $3m^2 = 75$

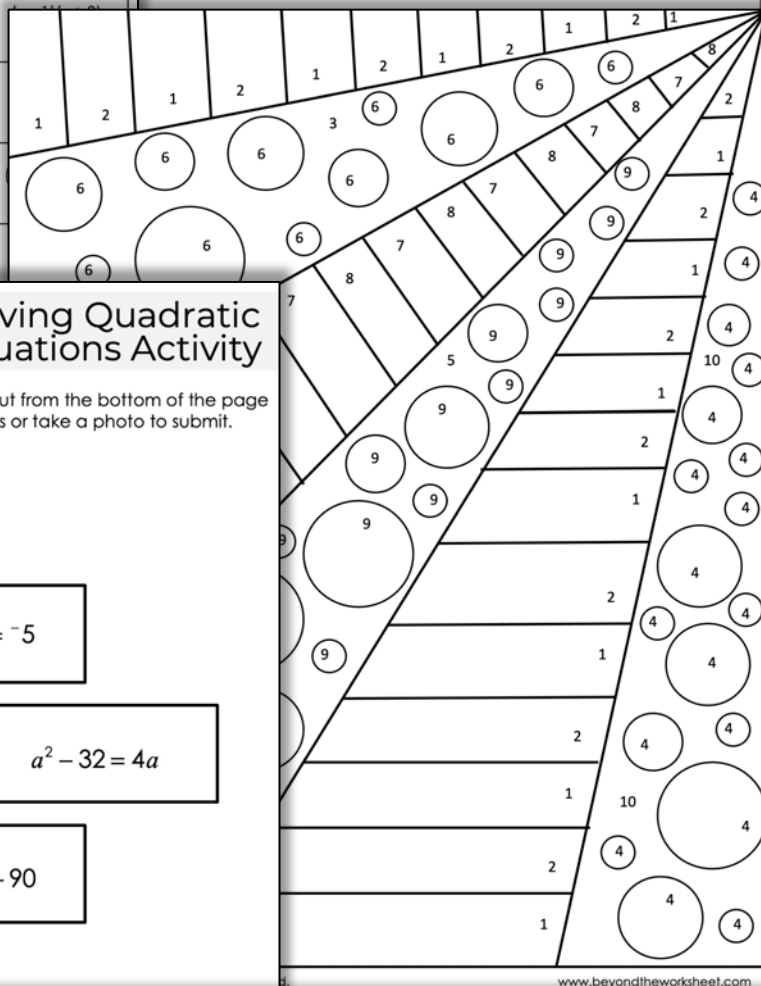
3) $8r^2 + 11r = -5$

4) $2n^2 - 4n - 9 = 7$

5) $10x^2 + 20x - 72 = 7$

6) $a^2 - 32 = 4a$

7) $6v^2 = 48v - 90$



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Activities

NO

{1}

{5, 3}

QUADRATICS UN

For #1 and 2: Identify the vertex, roots, axis of symmetry and whether the maximum or minimum for each graphed parabola.

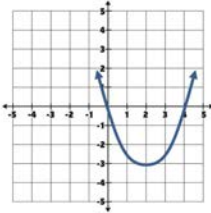
1. Vertex: _____

Is the vertex the minimum or maximum?

Axis of Symmetry: _____

Roots: _____

and _____



2. Vertex: _____

Is the vertex the minimum or maximum?

Axis of Symmetry: _____

Roots: _____

and _____

3. Solve by factoring. $x^2 = 2x + 35$

4. Solve by factoring. 5

Name _____

Date _____ Class _____

Solving Quadratic Equations Quiz

Directions: Read each problem carefully and solve according to the given directions.

1. Solve by factoring. $x^2 = 16 - 6x$

2. Solve by factoring. $8r^2 + 16r = 24$

3. Solve using the Quadratic Formula.
 $3n^2 - 24 = -6n$

4. Solve using the Quadratic Formula.
 $6y^2 - 11y = 140$

5. Solve by completing the square.
 $r^2 - 18r + 64 = -8$

6. Solve by completing the square.
 $7k^2 + 14k - 16 = 5$

Writing & Graphing Quadratic Equations Quiz

For #5 - 8: Sketch the graph of each equation.

5. $y = x^2 - 4x + 2$

$a =$ _____ $b =$ _____ $c =$ _____

$h =$ _____ $k =$ _____

y-intercept = _____

x-intercepts = _____ and _____

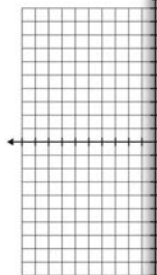
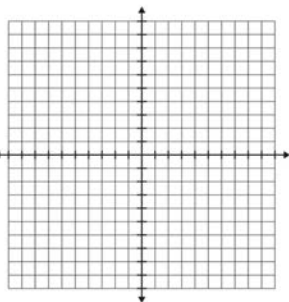
6. $y = \frac{1}{2}x^2 + 2x + 5$

$a =$ _____ $b =$ _____

$h =$ _____ $k =$ _____

y-intercept = _____

x-intercepts = _____ and _____



7. $y = -2x^2 - 12x - 21$

$a =$ _____ $b =$ _____ $c =$ _____

$h =$ _____ $k =$ _____

y-intercept = _____

x-intercepts = _____ and _____

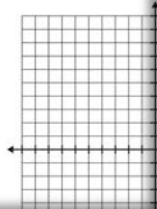
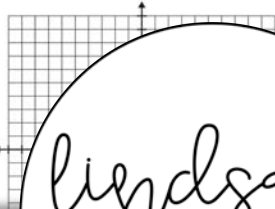
8. $y = -x^2 + 8x - 12$

$a =$ _____ $b =$ _____

$h =$ _____ $k =$ _____

y-intercept = _____

x-intercepts = _____ and _____



Name _____

Date _____ Class _____

Quadratics Unit Exam

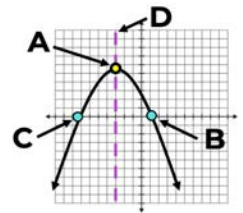
Directions: Read each problem carefully and solve according to the given directions. Show your work.

Identify each part of the parabola.

1. A = _____

2. B & C = _____

3. D = _____



4. Solve by factoring.
 $r^2 - 48 = -2r$

5. Solve by factoring.
 $2x^2 + 12x = 0$

6. Solve using the Quadratic Formula.
 $3x^2 = 10 + 7n$

7. Solve using the Quadratic Formula.
 $k^2 = -3k - 2$

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BEYOND THE WORKSHEET

Assessments

QUADRATIC

FUNCTIONS AND EQUATIONS

Curriculum Unit 9

QUADRATIC Functions & Equations

QUADRATIC

QUADRATIC

Functions and Equations

QUADRATIC

Functions and Equations

STUDENT TRACKING

Name	Pre Assessment	Post Assessment	Notes

STUDENT TRACKING

Name	Warm Up 1	Warm Up 2	Warm Up 3	Warm Up 4	Factoring Notes

STUDENT TRACKING

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Tracking Sheets & Binder Labels