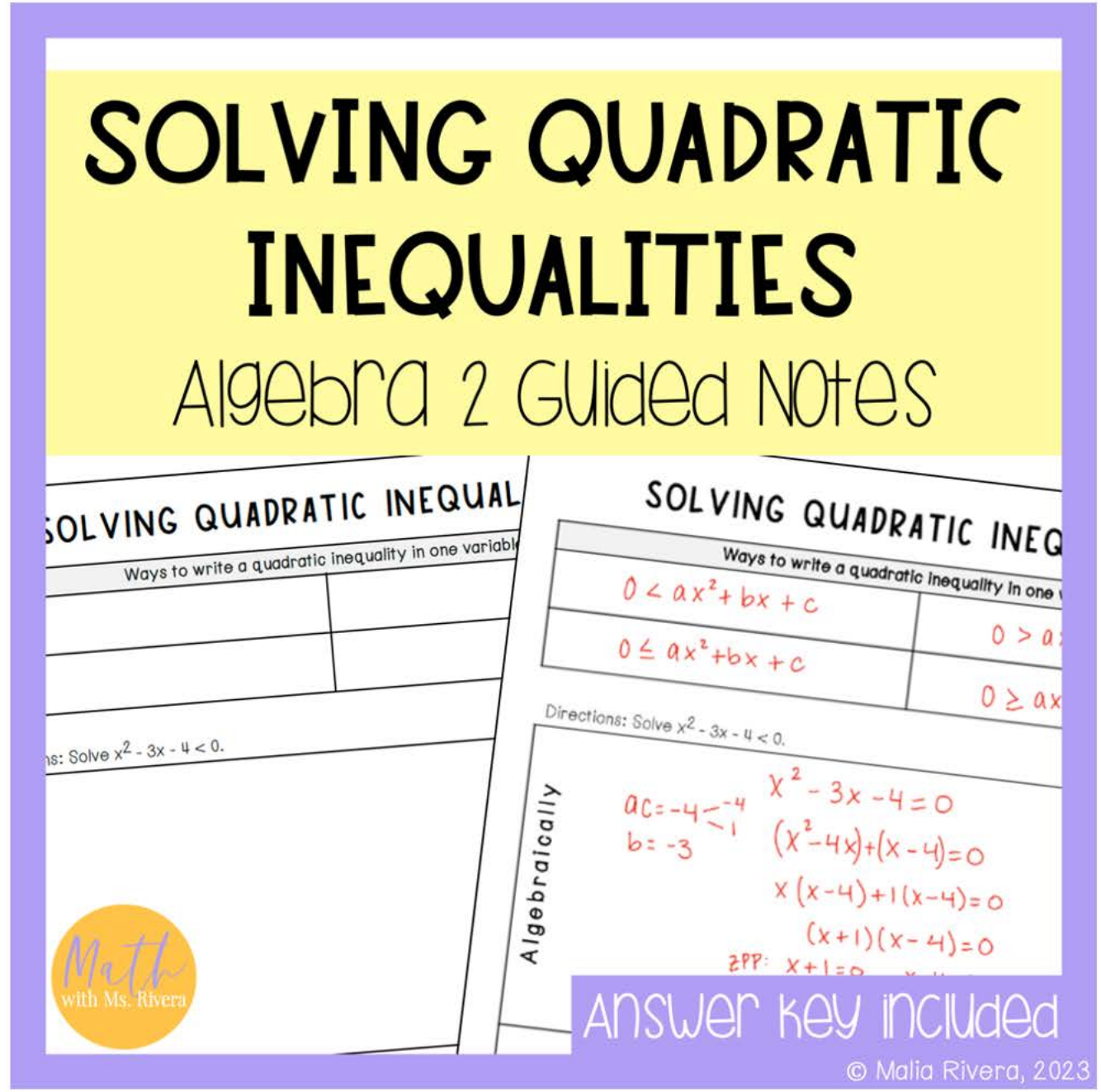
keep scrolling to get a sneak peak!

This set of guided notes will walk Algebra 2 students through solving quadratic inequalities. All you need to do is print & make copies for your students!



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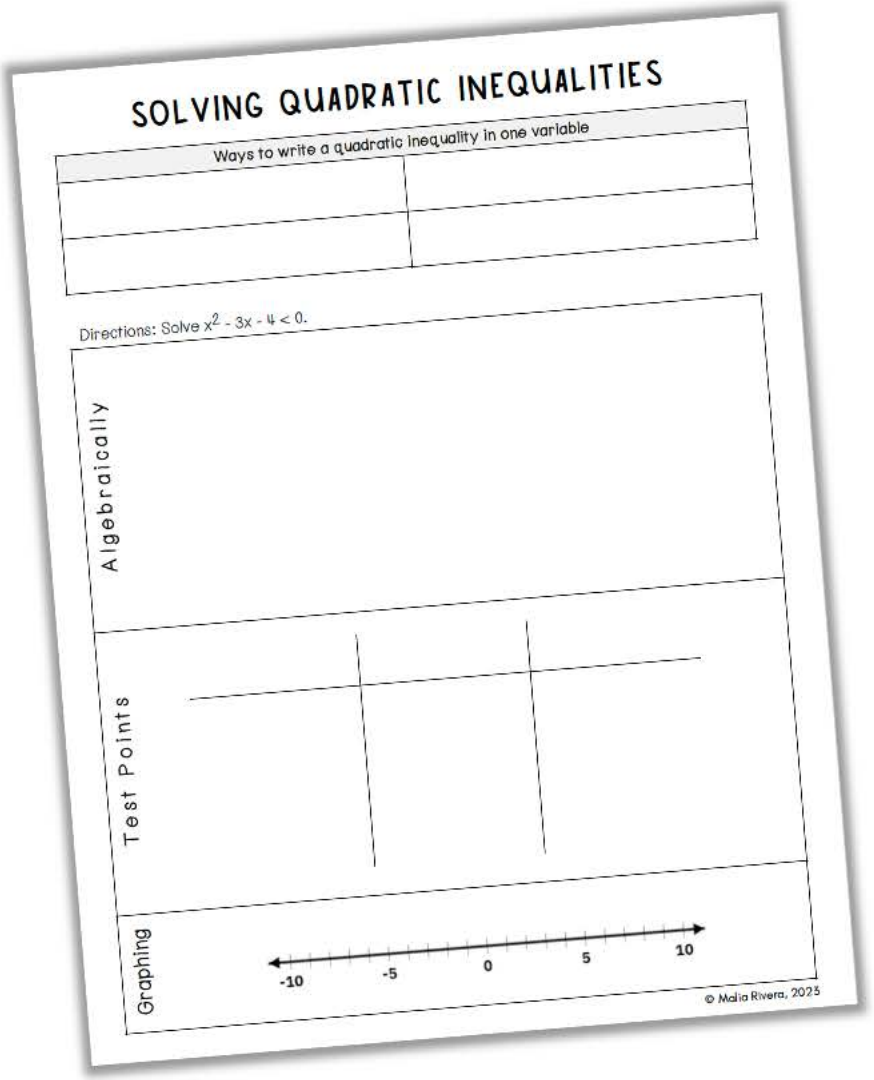
Algebra 2 Guided Notes
Solving Quadratic Inequalities

why do you need this?

- It's simple and done-for-you! Just print and make copies!
- Students can work on essential Algebra 2 skills.
- Aligns to TEKS!
- Suggested and detailed answer keys are included for you!



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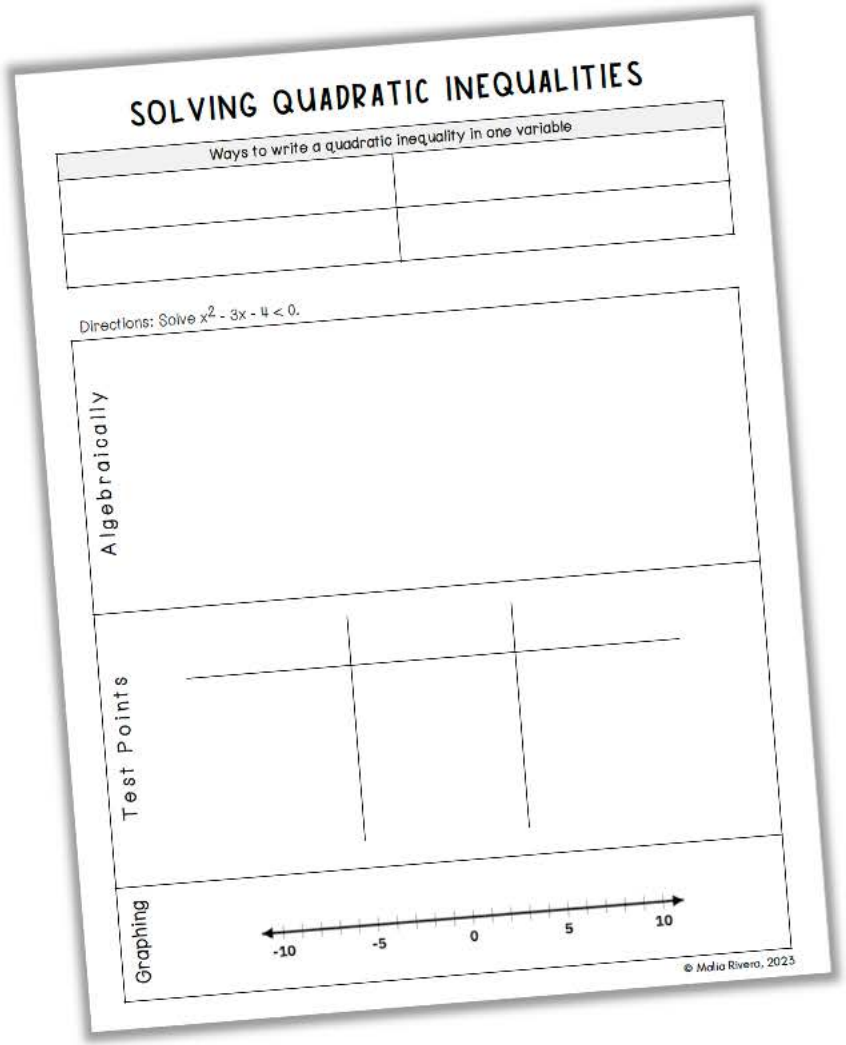
Algebra 2 Guided Notes: Solving Quadratic Inequalities *includes*:


SOLVING QUADRATIC INEQUALITIES

Ways to write a quadratic inequality in one variable

Directions: Solve $x^2 - 3x - 4 < 0$.

Algebraically

Test Points

Graphing

-10 -5 0 5 10

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- ✅ 1 page of guided notes
- ✅ Solving Quadratic Inequalities in One Variable
- ✅ Solving Quadratic Inequalities Algebraically
- ✅ Representing Solutions Graphically in a Number Line

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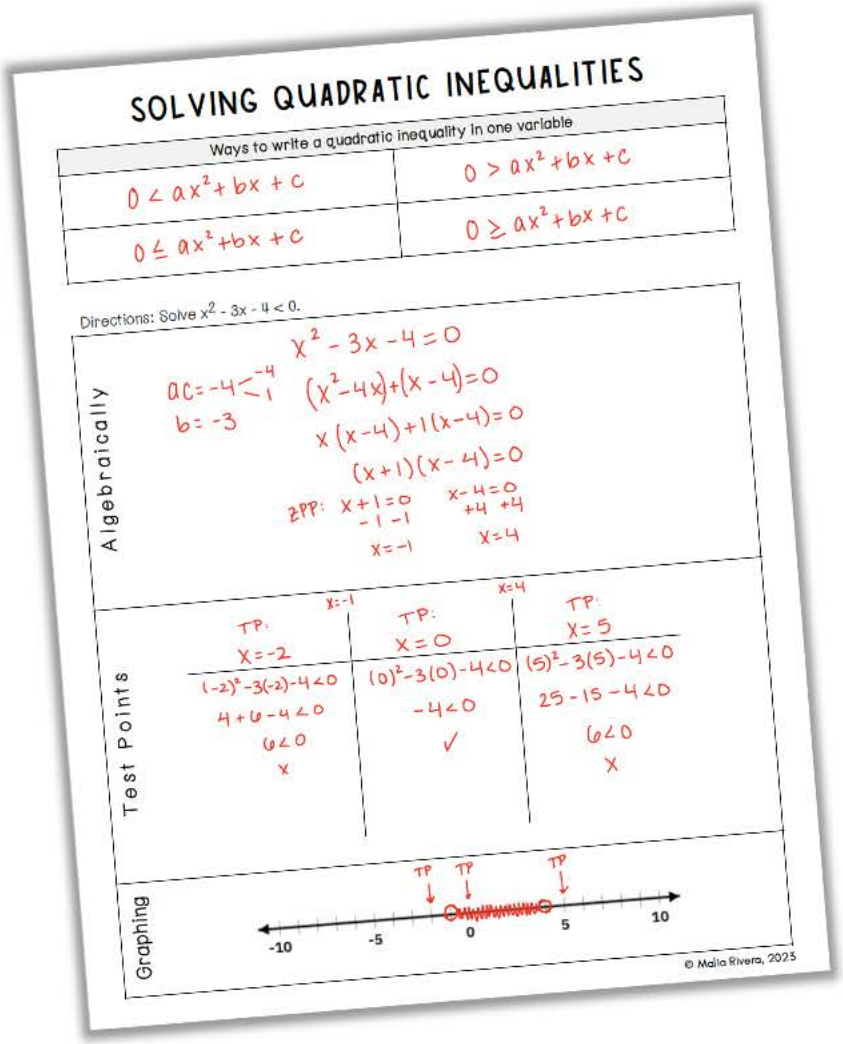
Algebra 2 Guided Notes: Solving Quadratic Inequalities *includes*:

✅ Detailed answer keys

TEKs: A2.4.H



SOLVING QUADRATIC INEQUALITIES

Ways to write a quadratic inequality in one variable	
$0 < ax^2 + bx + c$	$0 > ax^2 + bx + c$
$0 \le ax^2 + bx + c$	$0 \ge ax^2 + bx + c$

Directions: Solve $x^2 - 3x - 4 < 0$.

Algebraically

$x^2 - 3x - 4 = 0$

$ac = -4$ (-4, 1)

$b = -3$

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

$x(x-4) + 1(x-4) = 0$

$(x+1)(x-4) = 0$

ZPP: $x + 1 = 0$, $-1 \quad -1$, $x = -1$; $x - 4 = 0$, $+4 \quad +4$, $x = 4$

Test Points

TP: $x = -2$	TP: $x = 0$	TP: $x = 5$
$(-2)^2 - 3(-2) - 4 < 0$	$(0)^2 - 3(0) - 4 < 0$	$(5)^2 - 3(5) - 4 < 0$
$4 + 6 - 4 < 0$	$-4 < 0$	$25 - 15 - 4 < 0$
$6 < 0$	✓	$6 < 0$
✗		✗

Graphing

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Check out what *other teachers* are saying:

⭐⭐⭐⭐⭐

"This was great practice for my Algebra II students after I presented the lesson. Next Year, I may use them as notes."

- Vonda B.

⭐⭐⭐⭐⭐

"Great resource for what we were currently covering in precalc!"

- Megan M.

⭐⭐⭐⭐⭐

"I used this in conjunction with another document, but this would have worked fine on its own. The students found it much easier to understand the concept using these guided notes."

- Cheryl W.

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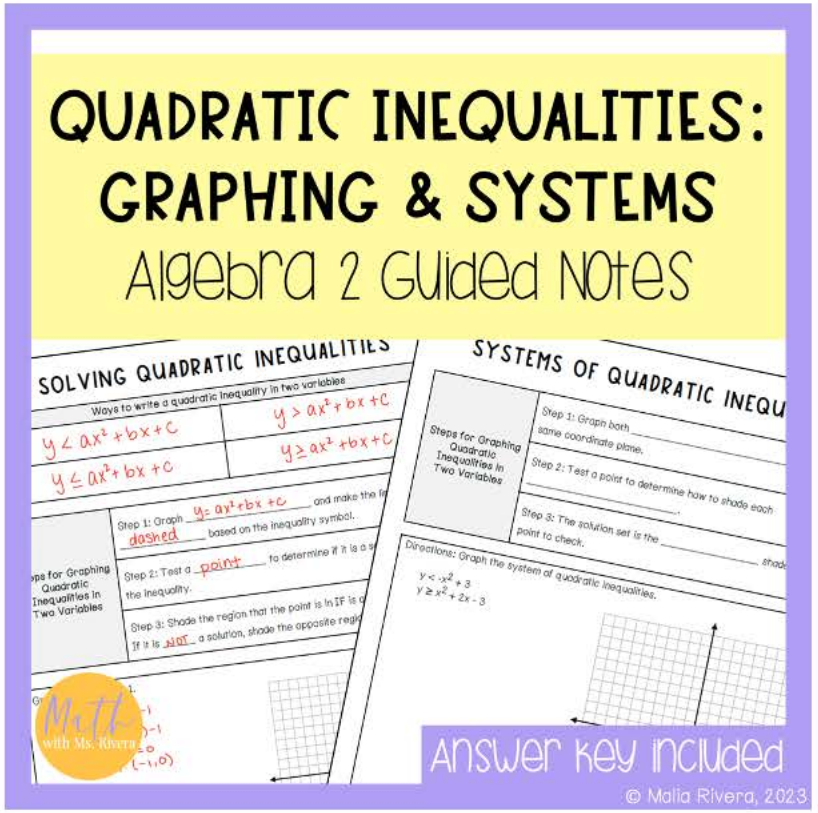
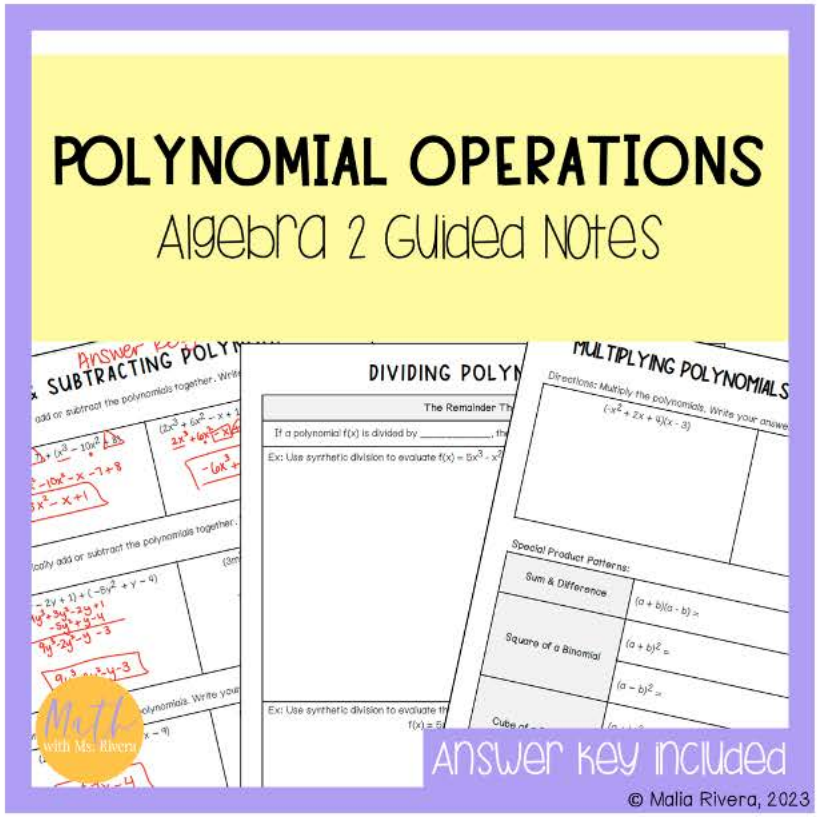
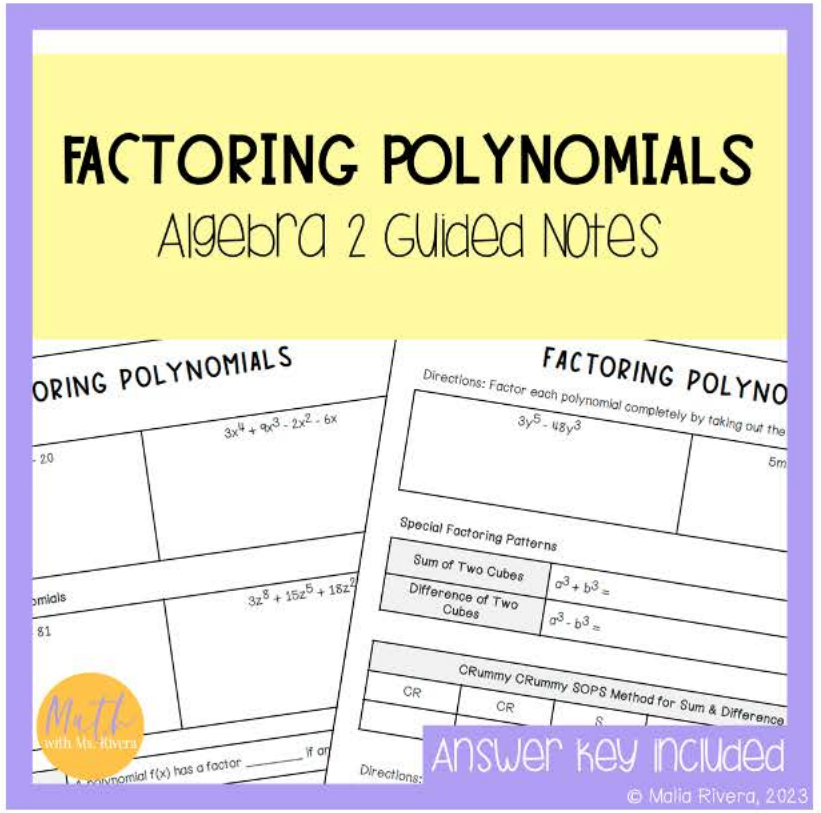
You may also *enjoy* ...







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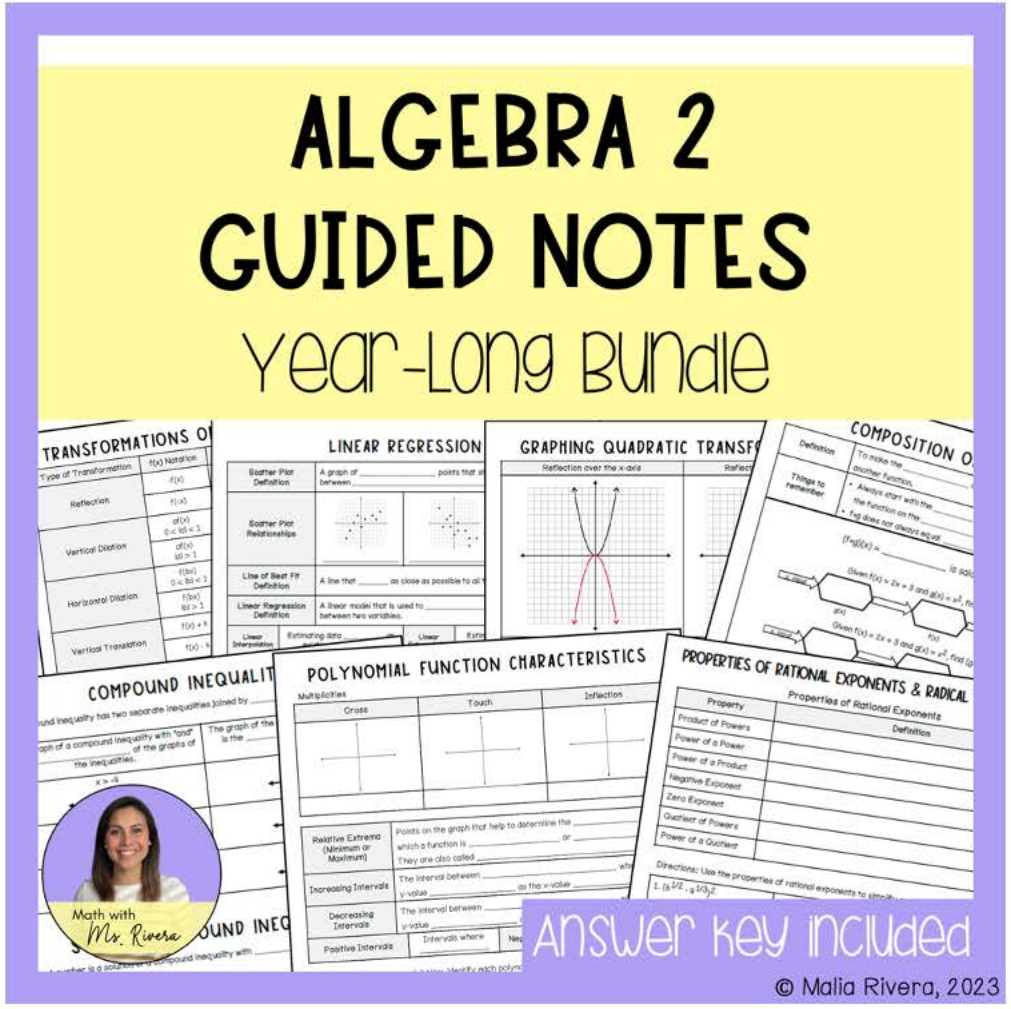
Check out the *year-long bundle*!



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hey there!

My name is Malia and I'm passionate about making learning and practicing math fun. I love creating engaging math resources for my students and I hope your students enjoy these Solving Quadratic Inequalities guided notes for Algebra 2 that can be used all year long!

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