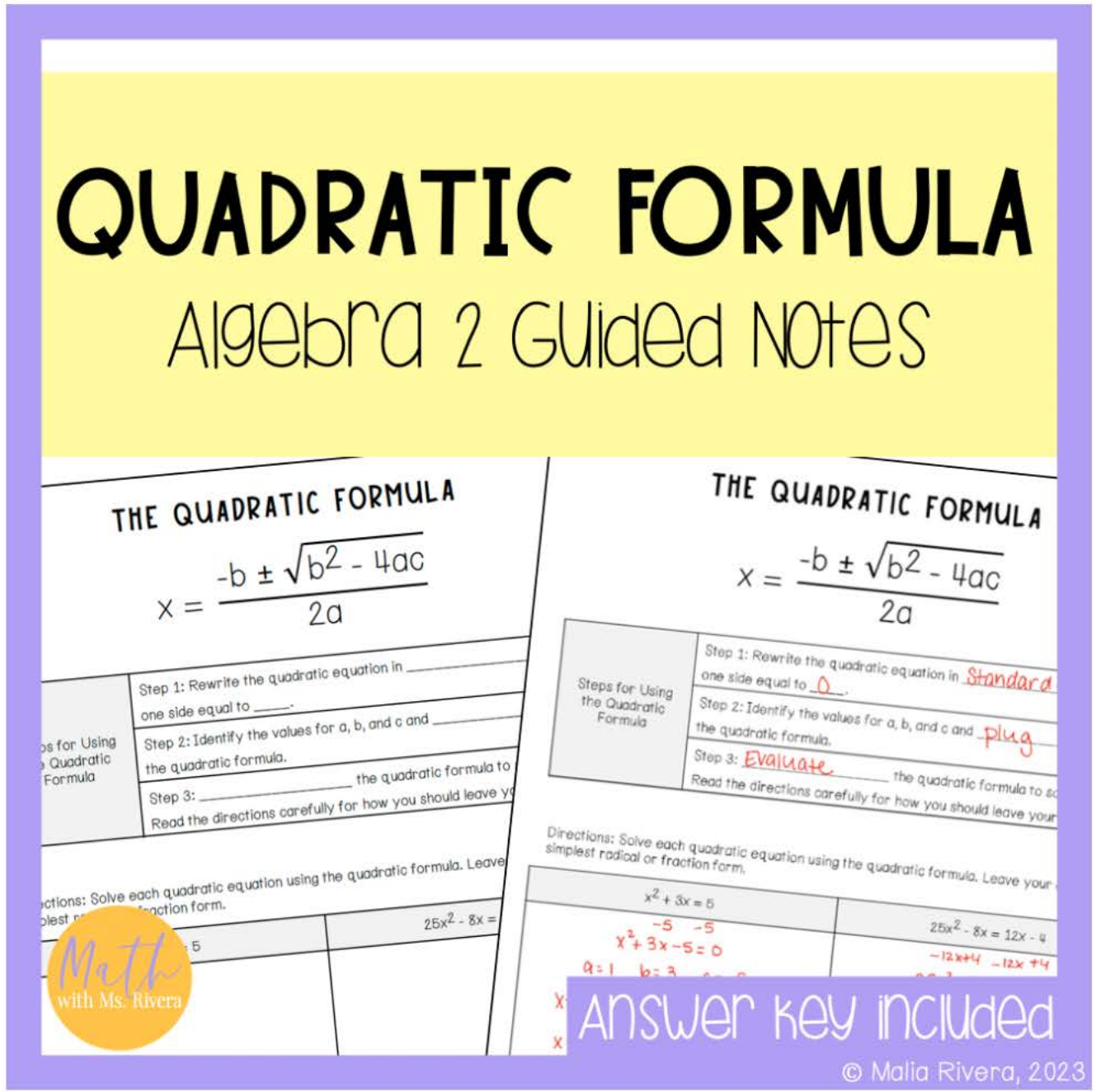
keep scrolling to get a sneak peak!

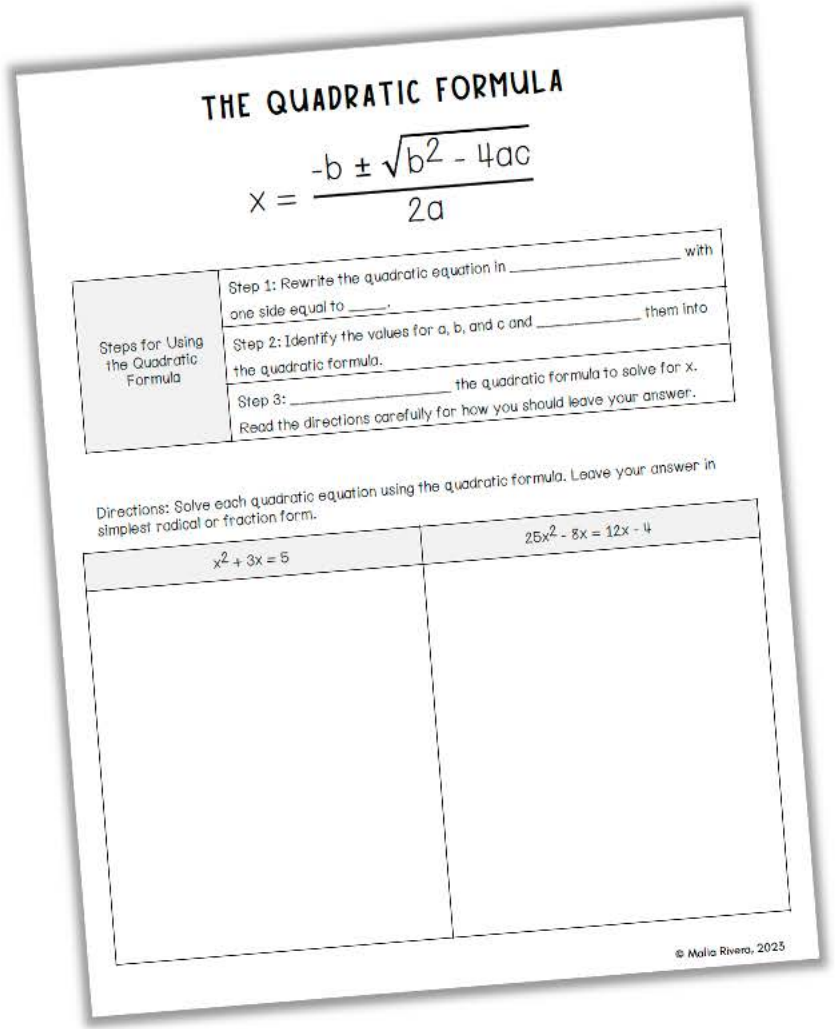
This set of guided notes will walk Algebra 2 students through using the quadratic formula to solve quadratic equations. All you need to do is print & make copies for your students!



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 CCSS, TEKs, and VA SOLs!
- Suggested and detailed answer keys are included for you!

Algebra 2 Guided Notes
Solving Quadratic Equations with the Quadratic Formula



THE QUADRATIC FORMULA

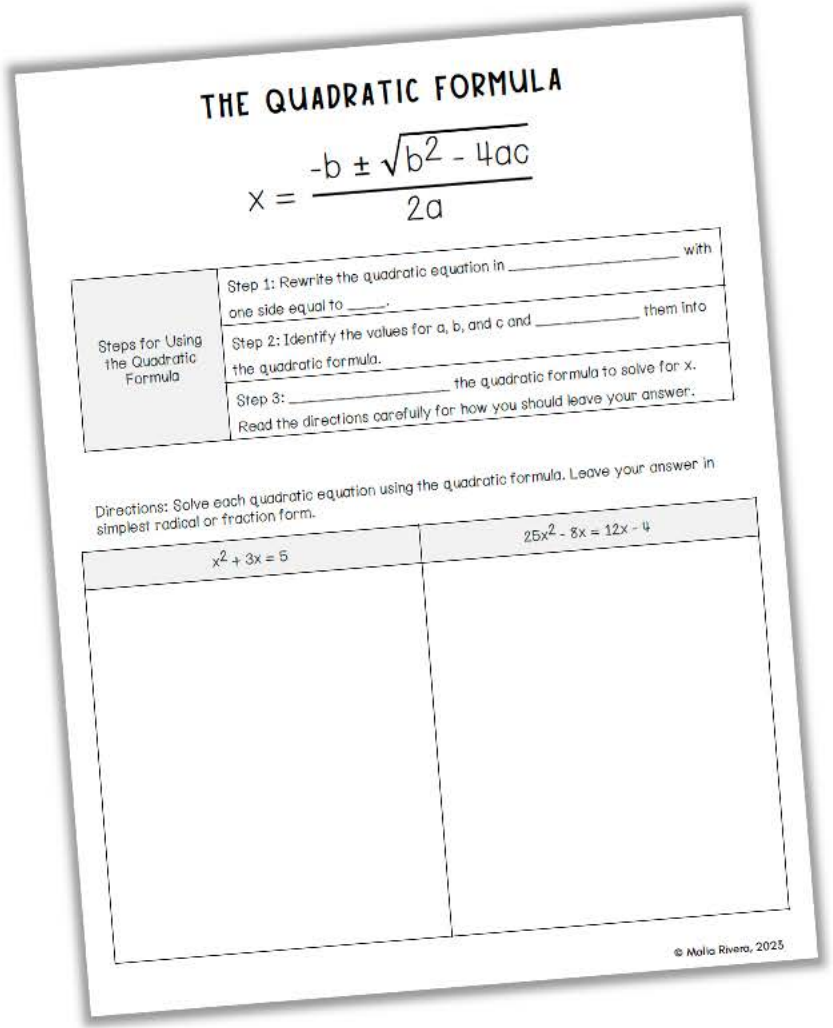
$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Steps for Using the Quadratic Formula	Step 1: Rewrite the quadratic equation in _____ with one side equal to _____. Step 2: Identify the values for a, b, and c and _____ them into the quadratic formula. Step 3: _____ the quadratic formula to solve for x. Read the directions carefully for how you should leave your answer.

Directions: Solve each quadratic equation using the quadratic formula. Leave your answer in simplest radical or fraction form.

$x^2 + 3x = 5$	$25x^2 - 8x = 12x - 4$

Algebra 2 Guided Notes: Solving Quadratic Equations using the Quadratic Formula *includes*:



THE QUADRATIC FORMULA

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Steps for Using the Quadratic Formula	Step 1: Rewrite the quadratic equation in _____ with one side equal to _____. Step 2: Identify the values for a, b, and c and _____ them into the quadratic formula. Step 3: _____ the quadratic formula to solve for x. Read the directions carefully for how you should leave your answer.

Directions: Solve each quadratic equation using the quadratic formula. Leave your answer in simplest radical or fraction form.

$x^2 + 3x = 5$	$25x^2 - 8x = 12x - 4$

- ✅ 1 page of guided notes
- ✅ Steps for Using the Quadratic Formula
- ✅ Applying the Quadratic Formula

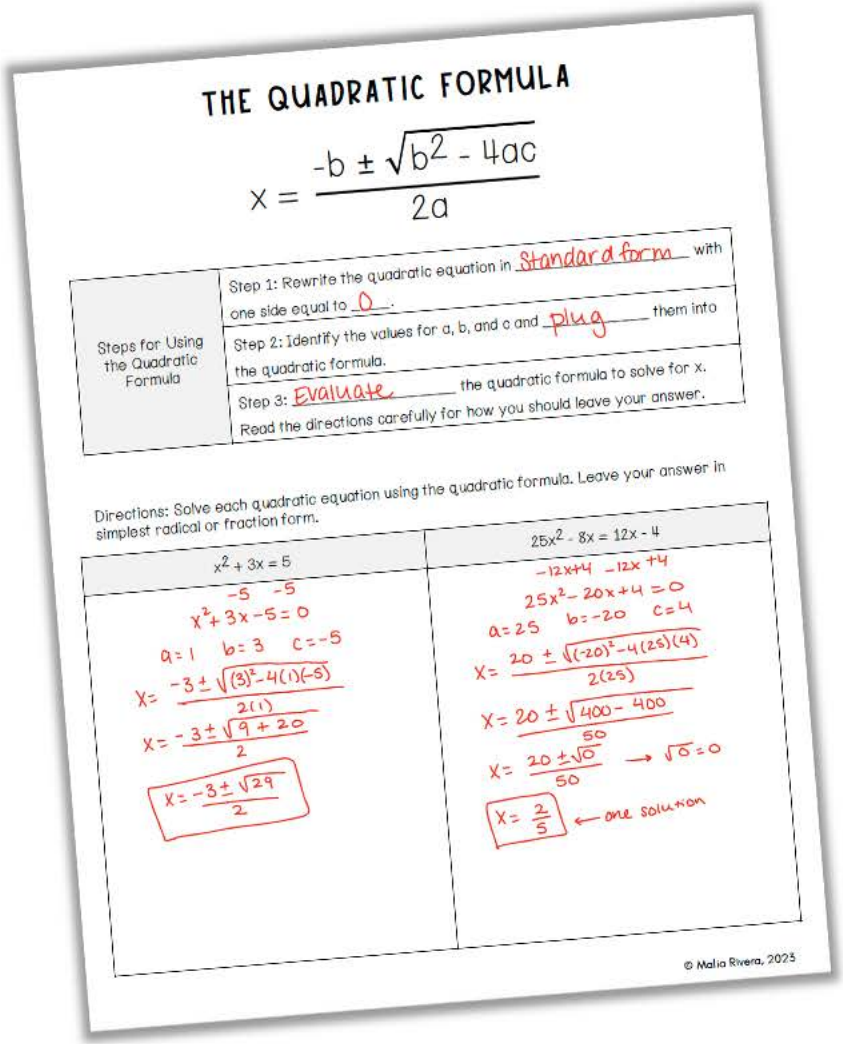
Algebra 2 Guided Notes: Solving Quadratic Equations using the Quadratic Formula *includes*:

✅ Detailed answer keys

CCSS: HSA-REI.B.4

TEKS: A2.4.F

VA SOLs: EI.AII.3.b



THE QUADRATIC FORMULA

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Steps for Using the Quadratic Formula	Step 1: Rewrite the quadratic equation in standard form with one side equal to 0.
	Step 2: Identify the values for a, b, and c and plug them into the quadratic formula.
	Step 3: Evaluate the quadratic formula to solve for x.
	Read the directions carefully for how you should leave your answer.

Directions: Solve each quadratic equation using the quadratic formula. Leave your answer in simplest radical or fraction form.

$x^2 + 3x = 5$	$25x^2 - 8x = 12x - 4$
$-5 \quad -5$ $x^2 + 3x - 5 = 0$ $a = 1 \quad b = 3 \quad c = -5$ $x = \frac{-3 \pm \sqrt{(3)^2 - 4(1)(-5)}}{2(1)}$ $x = \frac{-3 \pm \sqrt{9 + 20}}{2}$ $x = \frac{-3 \pm \sqrt{29}}{2}$	$-12x+4 \quad -12x+4$ $25x^2 - 20x + 4 = 0$ $a = 25 \quad b = -20 \quad c = 4$ $x = \frac{20 \pm \sqrt{(-20)^2 - 4(25)(4)}}{2(25)}$ $x = \frac{20 \pm \sqrt{400 - 400}}{50}$ $x = \frac{20 \pm \sqrt{0}}{50} \rightarrow \sqrt{0} = 0$ $x = \frac{2}{5}$ ← one solution

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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.

You may also *enjoy* ...

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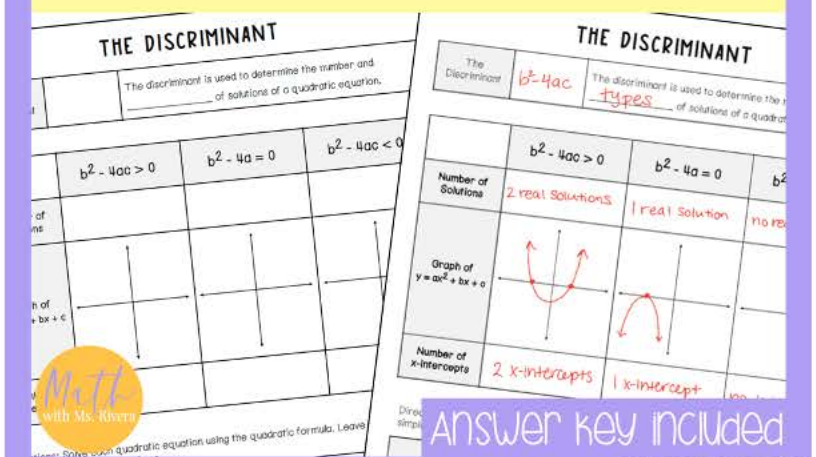

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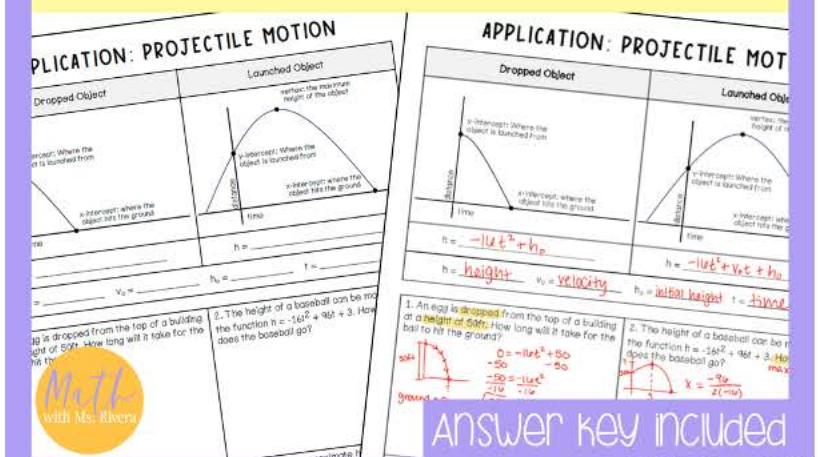
Algebra 2 Guided Notes



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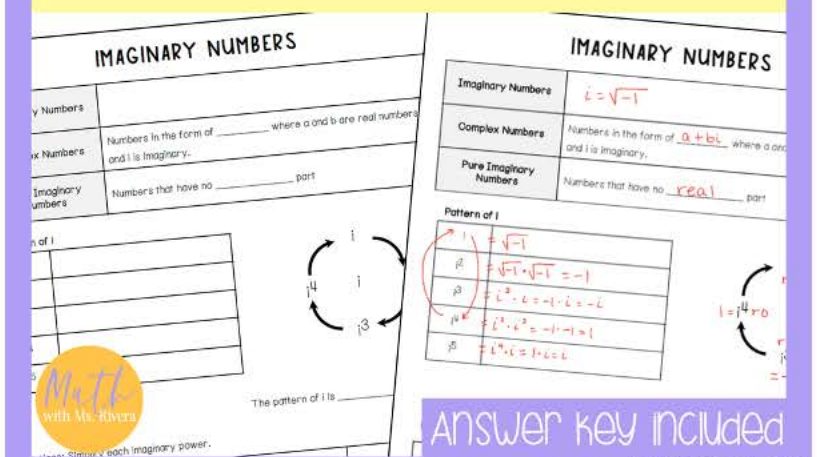

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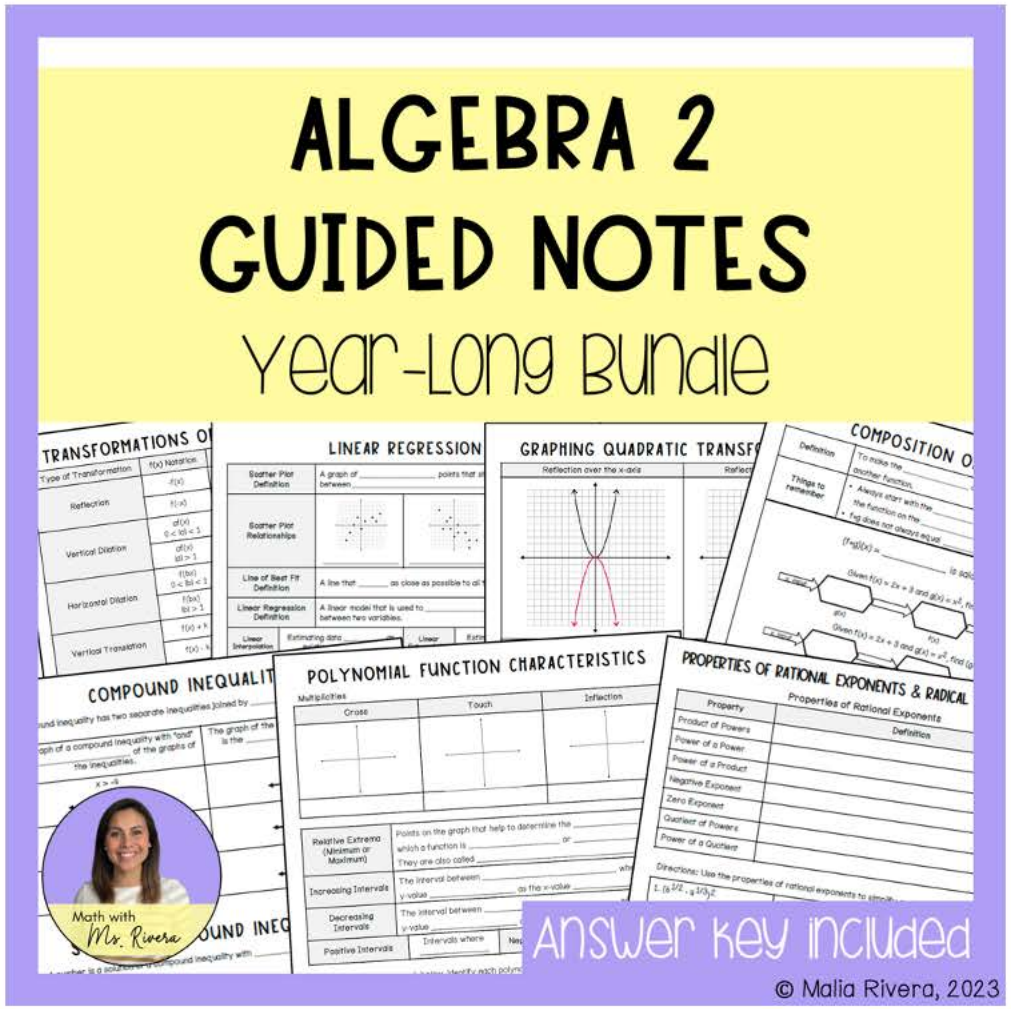

hey there!

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 Equations with the Quadratic Formula guided notes for Algebra 2 that can be used all year long!

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