

keep scrolling to
get a sneak peek!

Give your Algebra 2 students meaningful practice and give yourself feedback on what they understand (& what still needs work!). These quick, targeted exit tickets make it easy to check for understanding without piles of grading.

ALGEBRA 2 EXIT TICKETS

Full Year Bundle

Name: _____ Class: _____

EXIT TICKET

1. How many total complex solutions does the equation have?
 $f(x) = x^5 - 4x^3 + x - 7$

Name: Answer key Class: _____

EXIT TICKET

1. Graph the function $f(x) = \log_2 x$.

x	f(x)
$\frac{1}{2}$	-1
1	0
2	1

Domain: $(0, \infty)$ Range: $(-\infty, \infty)$

2. For the polynomial function, answer the fo
 $h(x) = (x - 2)^2(x + 3)(x - 1)$

2. Graph the function $g(x) = \log_4 x$



100+ exit tickets + Answer keys

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Why do you need this?



To quickly identify what your students understand before moving on to the next topic



Save time with ready-to-use, standards-aligned questions you can print & go

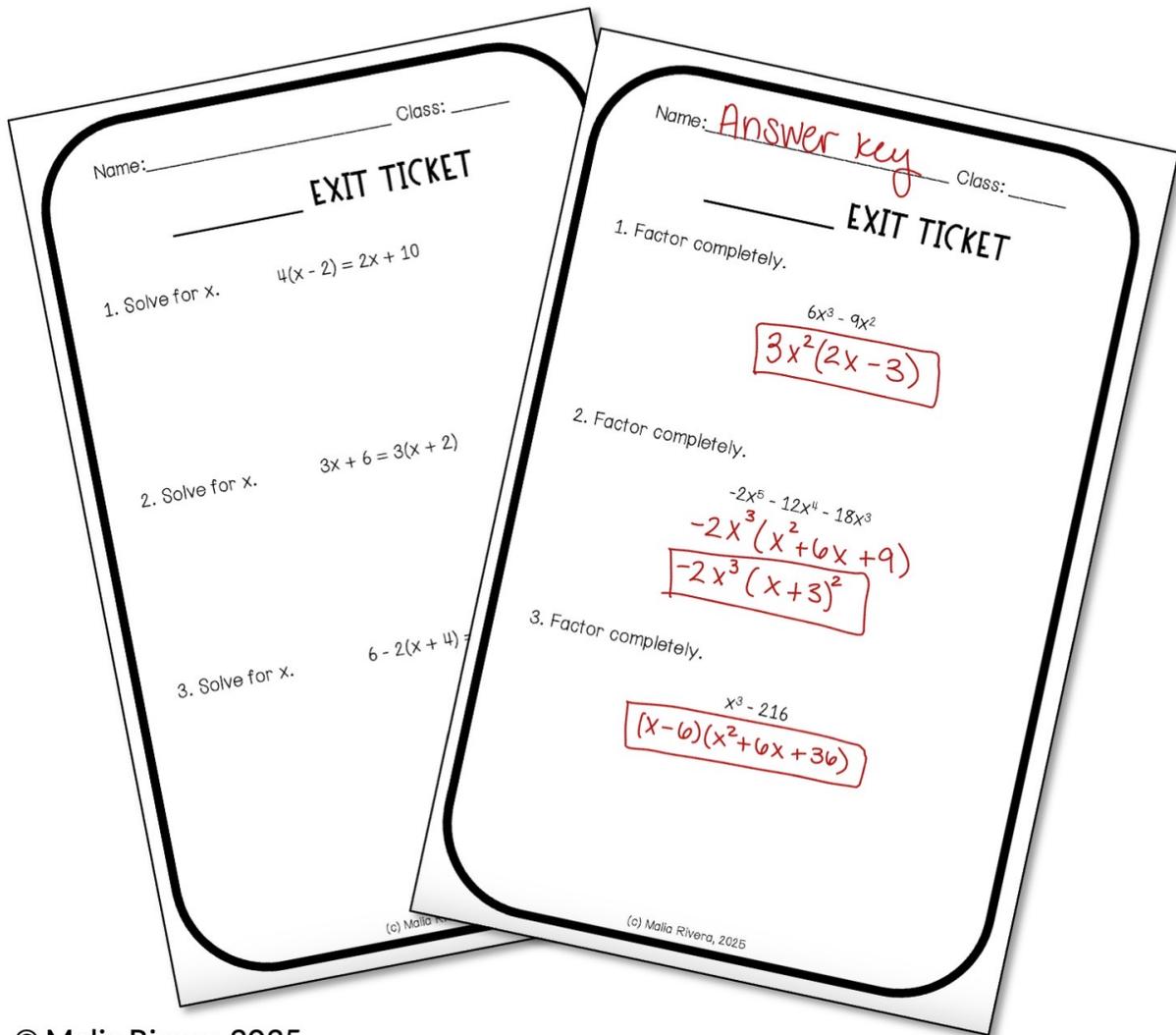


To reduce reteaching by catching misconceptions early

Algebra 2 Exit Tickets

The image shows two overlapping exit ticket worksheets. The top worksheet is titled "EXIT TICKET" and has fields for "Name:" and "Class:". It contains three questions: 1. Write an explicit formula for the arithmetic sequence: 12, 16, 20, 24, ...; 2. Find the 15th term of the sequence: $a_n = 5 + 7(n - 1)$; 3. Write a recursive rule for the sequence: 50, 45, 40, 35, ... The bottom worksheet is also titled "EXIT TICKET" and has fields for "Name:" and "Class:". It contains three questions: 1. Identify the parent function of each function below. a) $f(x) = (x - 2)^2$, b) $g(x) = 3|x + 1|$, c) $\sqrt{x} - 5$; 2. Identify the end behavior of $p(x) = -x^3$. As $x \rightarrow \infty$, $y \rightarrow -\infty$; As $x \rightarrow -\infty$, $y \rightarrow \infty$; 3. Draw any function that has the following end behavior: As $x \rightarrow \infty$, $y \rightarrow -\infty$, As $x \rightarrow -\infty$, $y \rightarrow -\infty$. Handwritten answers in red ink are present: "Answer key" for the name, "Quadratic", "absolute value", and "square root" for the parent functions; "∞" and "-∞" for the end behavior of $p(x) = -x^3$; and a hand-drawn graph of a function on a coordinate plane for the third question, with a note "Answers may vary".

Algebra 2 Exit Tickets include:



- ✓ A full year of exit tickets covering every major Algebra 2 topic
- ✓ 1-3 questions per exit ticket
- ✓ 100+ half sheet sized exit tickets
- ✓ Detailed answer keys

Algebra 2 Topics *list*:

Unit 1: Equations, Inequalities, Absolute Value

- Solving Multistep Equations with Variables on Both Sides
- Solving Algebraic Proportions
- Literal Equations
- Solving & Graphing Inequalities
- Solving & Graphing Compound Inequalities
- Solving Absolute Value Equations
- Solving Absolute Value Inequalities

Unit 2: Functions & Graphs

- Domain & Range
- Characteristics of Functions
- Function Families & Parent Functions
- Function Transformations
- Graphing & Writing Function Transformations
- Piecewise Functions
- Function Operations
- Composition of Functions
- Inverse Functions
- Direct, Inverse, Joint Variation

(Unit 2 cont.)

- Linear Regression
- Linear Programming
- Systems of Equations in 3 Variables

Unit 3: Quadratic Functions

- Graphing Quadratics in Standard Form
- Graphing Quadratics in Vertex Form
- Graphing & Writing Quadratic Transformations
- Writing Quadratic Equations
- Quadratic Regression

(Unit 3 cont.)

- Solving Quadratics by Graphing
- Solving Quadratics by Square Roots
- Solving Quadratics by Factoring
- Solving Quadratics by Completing the Square
- Solving Quadratics by the Quadratic Formula
- The Discriminant
- Projectile Motion Applications
- Imaginary Numbers
- Complex Number Operations

Algebra 2 Topics list:

(Unit 3 cont.)

- Solving Quadratic Equations with Imaginary Solutions
- Solving Nonlinear Systems of Equations
- Solving Quadratic Inequalities
- Solving & Graphing Systems of Quadratic Inequalities by Graphing

Unit 4: Polynomial Functions

- Classifying Polynomials
- Polynomials Operations
- Factoring Polynomials

(Unit 4 cont.)

- Solving Polynomial Equations
- Fundamental Theorem of Algebra
- Polynomial Function Characteristics
- Graphing Polynomial Functions
- Writing Polynomial Equations

Unit 5: Radical Functions

- Simplifying Radical Expressions
- Rational Exponents
- Radical Operations

(Unit 5 cont.)

- Solving Radical Equations
- Graphing Radical Functions
- Transformations of Radical Functions

Unit 6: Rational Functions

- Simplifying Rational Expressions
- Multiplying & Dividing Rational Expressions
- Simplifying Complex Fractions
- Adding & Subtracting Rational Expressions
- Solving Rational Equations

(Unit 6 cont.)

- Characteristics of Rational Functions
- Graphing Rational Functions

Unit 7: Exponential & Logarithmic Functions

- Characteristics of Exponential Functions
- Graphing Exponential Functions
- Transformations of Exponential Functions
- Writing Exponential Functions
- Solving Exponential Functions

Algebra 2 Topics list:

(Unit 7 cont.)

- Basics of Logarithmic Functions
- Characteristics of Logarithmic Functions
- Graphing Logarithmic Functions
- Transformations of Logarithmic Functions
- Properties of Logarithms
- Solving Logarithmic Equations
- Base e and Natural Logarithms
- Inverse Properties of Exponentials & Logarithms
- Solving Equations with Logarithms & Exponentials

(Unit 7 cont.)

- Exponential Functions Application

Unit 8: Sequences & Series

- Basics of Sequences
- Arithmetic Sequences
- Geometric Sequences
- Series & Summation Notation
- Arithmetic Series
- Geometric Series

Unit 9: Probability & Statistics:

- Basic & Compound Probability

(Unit 9 cont.)

- Two Way Tables
- Permutations & Combinations
- Measures of Center & Variation
- Normal Distribution & Z-Scores

Unit 10: Trigonometry

- Right Triangle Trigonometry
- Angles & Radians
- The Unit Circle
- Finding Exact Trig Values
- Graphing Sine & Cosine
- Graphing Transformations of Sine & Cosine

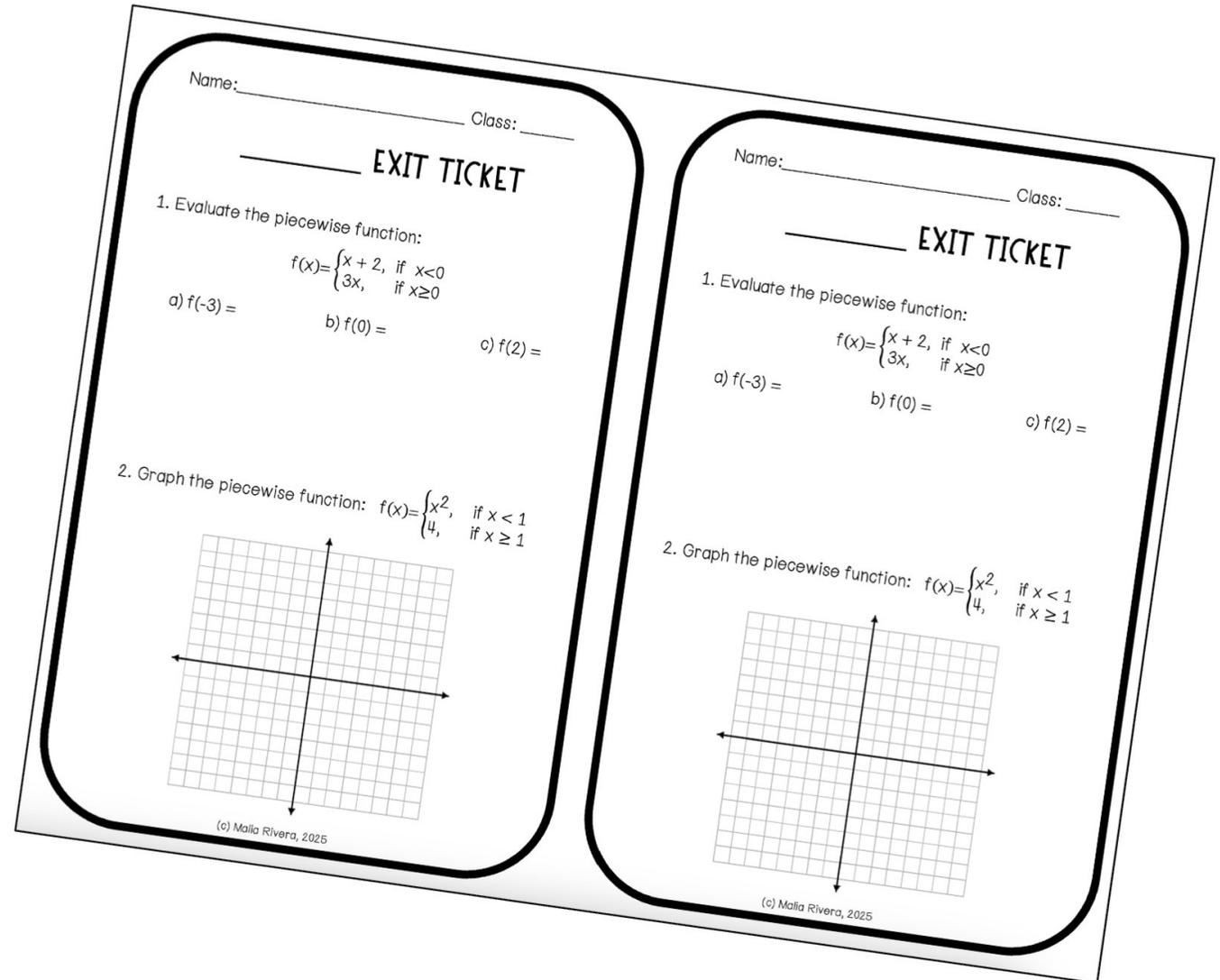
(Unit 10 cont.)

- Graphing Tangent Functions
- Graphing Trigonometric Reciprocal Functions
- Writing Trigonometric Equations from Graphs
- Sinusoidal Modeling Word Problems
- Proving Trigonometric Identities
- Sum & Difference Angle Identities
- Solving Trigonometric Equations

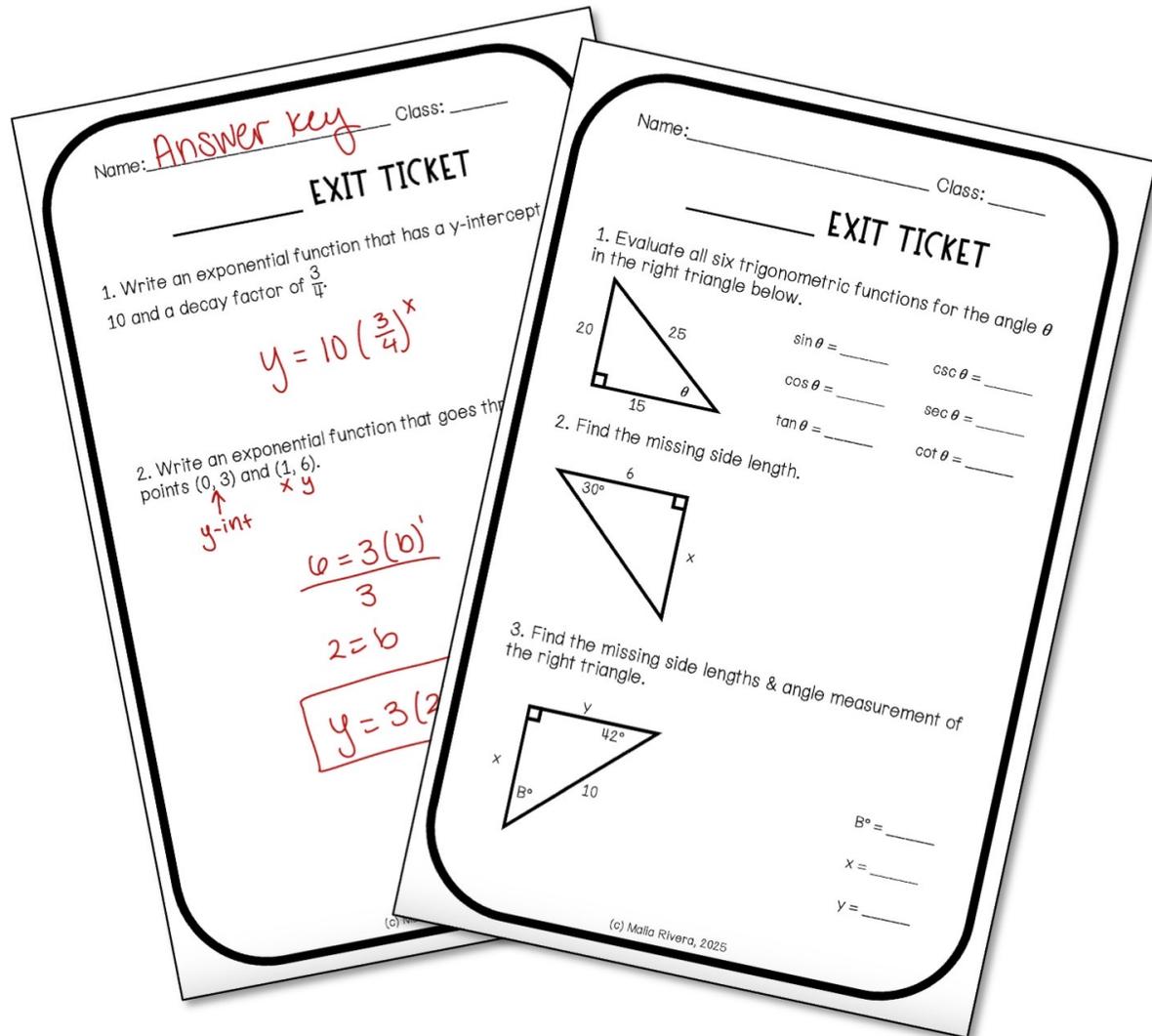
Algebra 2 Exit Tickets

Each exit ticket is designed to be quick and clear, so you get meaningful data without overwhelming students.

There are two half sheet exit tickets per topic to save paper!



how to use this resource



- Print, cut in half, and give at the end of a lesson
- Students can add the date of the exit ticket at the top for organization
- Use as a quick check for understanding, or other formative assessment
- Track results to form small groups or guide reteaching

Quick prep & powerful for planning. Exactly what every Algebra 2 teacher needs!

You may also enjoy ...

ALGEBRA 2 VOCABULARY CLASSROOM POSTERS

Composition of Functions

A combination of functions where the output of one function is the input of another function.

Given $f(x) = x^2 - 2$ and $g(x) = (x + 3)$

$(g \circ f)(x) = x^2 - 2 + 3$

Geometric Sequence

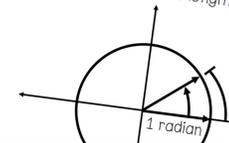
The ratio of any two consecutive terms is a constant.

$-3, 9, -27, 81, \dots$

$\cdot -3 \quad \cdot -3$

Radian

For a circle with radius r , the measure of an angle in standard position whose terminal side intercepts an arc length s is $\frac{s}{r}$.



124 words

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ALGEBRA 2 GUIDED NOTES Year-Long Bundle

TRANSFORMATIONS OF FUNCTIONS

Type of Transformation	(x, y) Relation
Reflection	$(x, -y)$
Vertical Dilation	(x, ky) $k > 1$ stretch $0 < k < 1$ compression
Horizontal Dilation	(kx, y) $k > 1$ compression $0 < k < 1$ stretch
Vertical Translation	$(x, y + k)$ $k > 0$ up $k < 0$ down

LINEAR REGRESSION

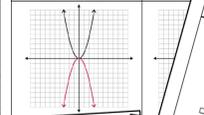
Steeper than: A graph of a line that is steeper than the reference line.

Line of Best Fit: A line that fits the data as closely as possible to all the points.

Linear Regression: A linear model that is used to describe the relationship between two variables.

GRAPHING QUADRATIC TRANSFORMATIONS

Reflection over the x-axis



COMPOSITION OF FUNCTIONS

Definition: To find the composition of two functions, f and g , you substitute the output of one function into the input of the other.

$(f \circ g)(x) = f(g(x))$

Example: $f(x) = 2x + 3$ and $g(x) = x^2$

$(f \circ g)(x) = 2(x^2) + 3 = 2x^2 + 3$

COMPOUND INEQUALITY

A compound inequality has two separate inequalities joined by "and" or "or".

Example: $x > 4$ and $x < 6$

Graph: $x > 4$ and $x < 6$

POLYNOMIAL FUNCTION CHARACTERISTICS

Characteristics	Definition
End Behavior	Points on the graph that help to determine the shape of the function.
Local Extrema	Points on the graph that help to determine the local maximum or minimum of a function.
Increasing Intervals	The interval between x-values where the function is increasing.
Decreasing Intervals	The interval between x-values where the function is decreasing.
Positive Intervals	Intervals where the function is positive.

PROPERTIES OF RATIONAL EXPONENTS & RADICALS

Property	Properties of Rational Exponents
Product of Powers	
Power of a Power	
Power of a Product	
Negative Exponent	
Zero Exponent	
Quotient of Powers	
Power of a Quotient	

Answer key included

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Free Algebra Activities!

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You'll also be getting exclusive freebies and content to help your Algebra students be successful this school year!

check it out!

Answer Key
Name: _____ Date: _____
ADDING & SUBTRACTING RATIONAL EXPRESSIONS
Directions: Add or subtract the rational expressions. Show your work.

ANSWER KEY
Name: _____ Date: _____
SOLVING SYSTEMS OF EQUATIONS
Directions: Solve systems of equations using substitution or elimination. Check your solution.

ANSWER KEY
Name: _____ Date: _____
MULTIPLYING & DIVIDING RATIONAL EXPRESSIONS
Directions: Multiply or divide the rational expressions. Show your work.

Rational Expression Operations - Addition & Subtraction
Directions: Answer each question and type the question number with the matching answer in the answer column to the right.

#	Question	Answer	Type the matching question numbers here
1	$\frac{5}{x} + \frac{3}{x+1}$	$\frac{2x+1}{x+2}$	
2	$\frac{2}{x+4} - \frac{x^2}{x^2-16}$	$-\frac{1}{x^2-1}$	
3	$\frac{x+2}{x^2+4x+4} + \frac{2x}{x+2}$	$\frac{2x^2+2x+5}{x^2+x-2}$	
4	$\frac{x}{x-2} + \frac{3}{x-1}$	$-\frac{x^2+2x-8}{x^2-16}$	
5	$\frac{x}{4x+8} - \frac{1}{x^2+2x}$	$\frac{8x+5}{x^2+1}$	
6	$\frac{x+2}{x-1} + \frac{x-1}{x+2}$	$\frac{x^2-3x+7}{x^2-4}$	
7	$\frac{2x+1}{x^2-4} + \frac{x-3}{x+2}$	$\frac{x^2+2x-6}{x^2-3x+2}$	
8	$\frac{x^2+2x}{x^2-1} - \frac{x+1}{x-1}$	$\frac{x-2}{4x}$	

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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 posters too!

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