

keep scrolling to  
get a sneak peek!

If you're looking for a new way to get your students practicing math, this is the resource for you! With this **synthetic division** collaborative activity, students will **divide polynomials** using synthetic division on each gingerbread cookie piece. Assembling all the students' pieces creates one large holiday display on your classroom bulletin board.

# SYNTHETIC DIVISION OF POLYNOMIALS

smart cookies



student work bulletin board

© Malia Rivera, 2024

Why do you need this?

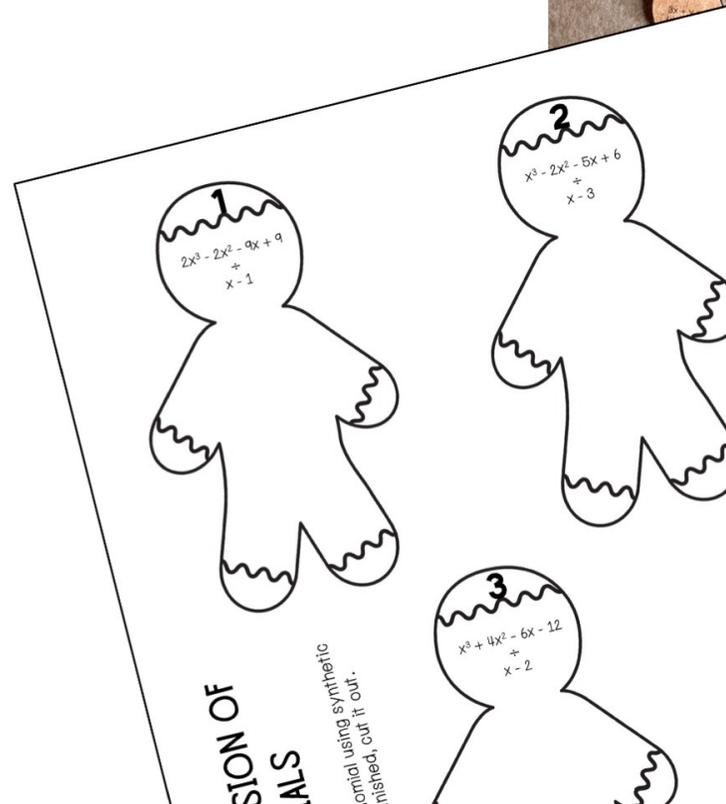
# Synthetic Division Gingerbread Cookies Bulletin Board



New & engaging way to help students practice dividing polynomials using synthetic division.



Unique, collaborative way to display student work



# Synthetic Division Gingerbread Cookies *includes:*



- ✓ 3 blank tessellation pages per student
- ✓ 9 questions total
- ✓ an answer key
- ✓ teacher instructions

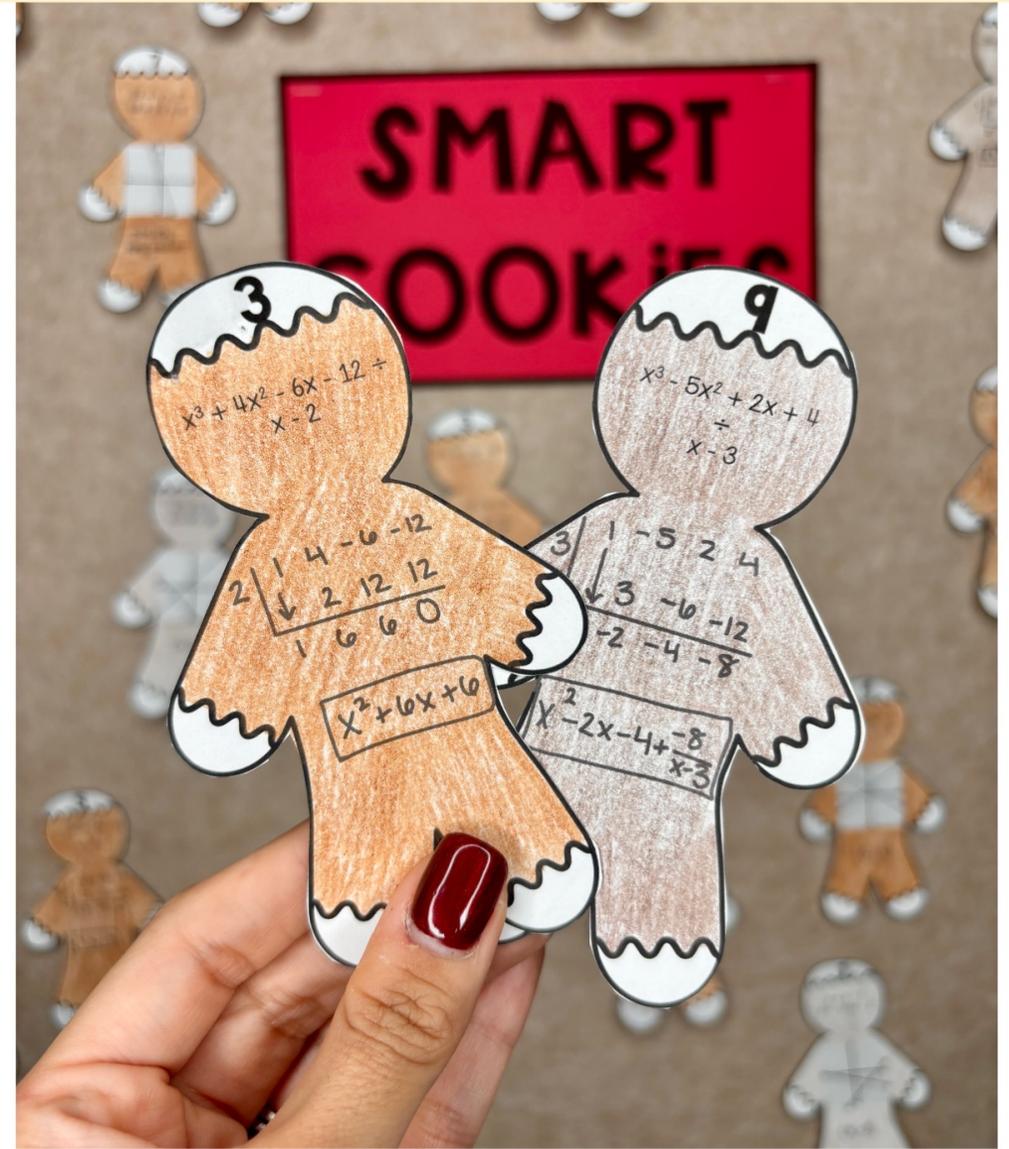
# Synthetic Division Gingerbread Cookies Bulletin Board

standards covered:

**CCSS:** HSA-APR.D.6

**TEKs:** A2.7.C

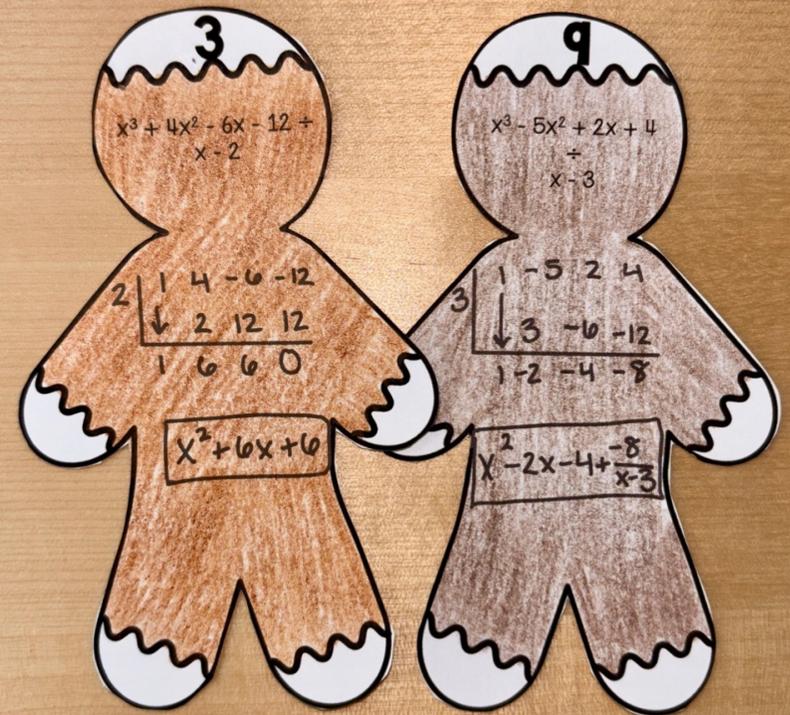
**VA SOLs:** EO.All.1.a, EO.A.2.b



# Synthetic Division Gingerbread Cookies Bulletin Board

skills included:

- Dividing polynomials using synthetic division
- Writing the answer with & without a remainder



# Synthetic Division Gingerbread Cookies Bulletin Board

Once all the student pieces are finished, it will create one large, colorful holiday bulletin board display.

Students, Teachers, Staff and Parents will love looking at the display of your students' work on your classroom wall!



# how to use this resource



- Print or make copies – I print on white so my students can decorate each piece how they want.
- Students will answer the questions on each gingerbread cookies (3 per page)
- Collect all the students' pieces & put it up on the bulletin board to create one big, festive gingerbread cookie design

You may also enjoy ...

## POLYNOMIAL OPERATIONS

Algebra 2 Guided Notes

This thumbnail shows a page from a guided notes book. It features several sections: 'SUBTRACTING POLYNOMIALS' with a handwritten example  $(x^3 - 10x^2 + 8x - 7) - (x^2 - x + 1) = x^3 - 11x^2 + 9x - 8$ ; 'DIVIDING POLYNOMIALS' with a section for synthetic division; and 'MULTIPLYING POLYNOMIALS' with a section for special product patterns like the sum and difference of two cubes, the square of a binomial, and the cube of a binomial. A 'MATH with Ms. Rivera' logo is in the bottom left corner.

Answer key included

© Malia Rivera, 2023

## SYNTHETIC DIVISION OF POLYNOMIALS

Printable Maze

This thumbnail shows a maze activity titled 'Synthetic Division of Polynomials Maze'. The maze is composed of boxes containing synthetic division problems. A path is marked with a red arrow starting from a 'START HERE!' sign. The problems include:  $(x^3 - 3x^2 + 7x + 6) \div (x - 2)$ ,  $(x^3 - 6x^2 + 9) \div (x - 4)$ ,  $(x^3 - 3x^2 + 7x + 6) \div (x - 2)$ , and  $(x^3 - 6x^2 + 9) \div (x - 4)$ . A 'MATH with Ms. Rivera' logo is in the bottom left corner.

Self-checking

Answer key included

© Malia Rivera, 2023

## SYNTHETIC DIVISION

### Differentiated Circuit Worksheet

This thumbnail shows a circuit worksheet for synthetic division. It includes a circuit diagram with numbered boxes (1-10) and a path of arrows. The problems are: 1. Divide  $(x^3 - 6x^2 + 11x - 6)$  by  $(x - 2)$ ; 2. Divide  $(x^3 + 5x^2 - 2x + 1)$  by  $(x - 2)$ ; 3. Divide  $(x^3 + 5x^2 - 6)$  by  $(x - 1)$ ; 4. Divide  $(4x^3 + 2x^2 - 1)$  by  $(x - 1)$ . Handwritten solutions are shown for problems 1 and 3. A 'MATH with Ms. Rivera' logo is in the bottom left corner.

2 versions + Answer key included

© Malia Rivera, 2024

# Free Algebra Activities!

When you join my email list, I'll send you a free Algebra print & digital self-checking activities. There is an Algebra 1 and Algebra 2 version!

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

check it out!

**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	$\frac{x^2+2x}{x^2-1} - \frac{x+1}{x-1}$	$\frac{x-2}{4x}$	

(c) Malia Rivera, 2024



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 too!

Did you know you could get **FREE** money from TPT??

All you need to do is leave feedback on the product after you purchase. [Click here](#) to leave reviews and earn credits towards your next TPT purchase!

let's connect!



Follow my TPT store



Follow my Instagram



Shop my Website