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get a sneak peek!

ADDING & SUBTRACTING POLYNOMIALS

Choice Board

Help your Algebra students practice adding and subtracting polynomial expressions. Your students will benefit from being given choice when it comes to how they want to practice math!

Date: _____ Period: _____

Adding & Subtracting Polynomials

Directions: Choose _____ problems from each column. Show your work in the blank space.

is	Subtracting Polynomials	Adding & Sub
$(4 - 6)$	$(4x^3 + 2 - 2x^2) - (7x^3 - 1 - x^2)$	$(4c - 10c^4 - 7) - ($
$3 - 3x^2)$	$(4x^2 + 6x^4 - 2x^2) - (7x^3 - 1 - x^2)$	$(k^2 + 3k^4 - 10k$
$3x^4 - 5)$	$(8n - 7 + 2n^3) - (2n^3 + 3 + 5n)$	$(v^2 + 8$

ANSWER KEY

Name: _____ Date: _____

Adding & Subtracting Polynomials

Directions: Choose _____ problems from each column.

Adding Polynomials	Subtracting Polynomials
$(6 + 2x^2 - 5x^4) + (5x^2 - 6x^4 - 6)$ $-11x^4 + 7x^2$	$(4x^3 + 2 - 2x^2) - (7x^3 - 1 - x^2)$ $-3x^3 + x^2 + 3$
$(2x^4 + 6 - 8x^3) + (6 + 6x^3 - 3x^2)$ $2x^4 - 2x^3 - 3x^2 + 12$	$(4x^2 + 6x^4 - 2x^2) - (7x^3 - 1 - x^2)$ $6x^4 - 7x^3 -$
$(1 + x^4 - 2x) + (7x + 3x^4 - 5)$ $4x^4 + 5x - 4$	$(8n - 7 + 2n^3) - (2n^3 + 3 + 5n)$

Math with Ms. Rivera

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Why do you need this?



Allowing student choice in how they practice will encourage them to do the practice!



You can differentiate by the number of problems required of particular students.

Adding & Subtracting Polynomials Choice Board

Name: _____ Date: _____ Period: _____

Directions: Choose _____ problems from each column. Show your work in the boxes.

Adding Polynomials	Subtracting Polynomials	Adding & Subtracting
$(6 + 2x^2 - 5x^4) + (5x^2 - 6x^4 - 6)$	$(4x^3 + 2 - 2x^2) - (7x^3 - 1 - x^2)$	
$(2x^4 + 6 - 8x^3) + (6 + 6x^3 - 3x^2)$	$(4x^2 + 6x^4 - 2x^2) - (7x^3)$	$-11x^4 + 7x^2$
$(1 + x^4 - 2x) + (7x + 3x^4 - 5)$	$(8n - 7 + 2n^3) - (2n^3 + 3)$	$2x^4 - 2x^3 - 3x^2 + 12$
$(5m^2 + 7m - 8m^2) + (2m + 1 - m^4)$	$(4x + 7x^2 - 2) - (3x - 5x^4)$	$4x^4 + 5x - 4$
$(6p - 7 - p^3) + (5p + 4 - 3p^4)$	$(7y^3 - 3y^2 + 1) - (3y^2 + 5 + 1)$	$-m^4 - 3m^2 + 9m + 1$

ANSWER KEY

Name: _____ Date: _____ Period: _____

Directions: Choose _____ problems from each column. Show your work in the boxes.

Adding Polynomials	Subtracting Polynomials	Adding & Subtracting
$(6 + 2x^2 - 5x^4) + (5x^2 - 6x^4 - 6)$	$(4x^3 + 2 - 2x^2) - (7x^3 - 1 - x^2)$	
$(2x^4 + 6 - 8x^3) + (6 + 6x^3 - 3x^2)$	$(4x^2 + 6x^4 - 2x^2) - (7x^3)$	$-3x^3 + x^2 + 3$
$(1 + x^4 - 2x) + (7x + 3x^4 - 5)$	$(8n - 7 + 2n^3) - (2n^3 + 3 + 5n)$	$6x^4 - 7x^3 - x^2$
$(5m^2 + 7m - 8m^2) + (2m + 1 - m^4)$	$(4x + 7x^2 - 2) - (3x - 5x^4 - 5)$	$3n - 10$
$(6p - 7 - p^3) + (5p + 4 - 3p^4)$	$(7y^3 - 3y^2 + 1) - (3y^2 + 5 + 6y^3)$	$2x^2 + x + 3$

Adding & Subtracting Polynomials Choice Board *includes:*

Name: _____ Date: _____ Period: _____

Adding & Subtracting Polynomials

Directions: Choose _____ problems from each column. Show your work in the boxes.

Adding Polynomials	Subtracting Polynomials	Adding & Subtracting
$(6 + 2x^2 - 5x^4) + (5x^2 - 6x^4 - 6)$	$(-3 + 2 - 2x^2) - (7x^3 - 1 - x^2)$	$(4c - 10c^4 - 7) - (4c + 10c^4 - 4)$
$(2x^4 + 6 - 8x^3) + (6 + 6x^3 - 3x^2)$	$(4x^2 + 6x^4 - 2x^3) - (x^4)$	$(k^2 + 3k^4 - 10k) + (8k^4 - 5k^2 + 7k)$
$(1 + x^4 - 2x) + (7x + 3x^4 - 5)$	$(8n - 7 + 2n^3) - (2n^3 + 3 + 5n)$	$(v^2 + 8 - 7v^3) + (4v - 10v^2 - 3)$

- ✓ printable worksheet
- ✓ a detailed answer key
- ✓ 3 columns with 5 questions in each – 15 question total
- ✓ Spot to assign how many problems students need to complete

Adding & Subtracting Polynomials Choice Board

standards covered:

CCSS: HSA-APR.A.1

TEKs: A1.10.A

VA SOLs: EO.A.2.b

Name: _____ Date: _____ Period: _____

ANSWER KEY

Adding & Subtracting Polynomials

Directions: Choose _____ problems from each column. Show your work in the boxes.

Adding Polynomials	Subtracting Polynomials	Adding & Subtracting
$(6 + 2x^2 - 5x^4) + (5x^2 - 6x^4 - 6)$ $-11x^4 + 7x^2$	$(4x^3 + 2 - 2x^2) - (7x^3 - 1 - x^2)$ $-3x^3 + x^2 + 3$	$(4c - 10c^4 - 7) - (4c + 10c^4 - 4)$ $-20c^4 - 3$
$(2x^4 + 6 - 8x^3) + (6 + 6x^3 - 3x^2)$ $2x^4 - 2x^3 - 3x^2 + 12$	$(4x^2 + 6x^4 - 2x^2) - (7x^3 - 1 - x^2)$ $6x^4 - 7x^3 - x^2$	$(k^2 + 3k^4 - 10k) + (8k^4 - 5k^2 + 7k)$ $11k^4 - 4k^2 - 3k$
$(1 + x^4 - 2x) + (7x + 3x^4 - 5)$ $4x^4 + 5x - 4$	$(8n - 7 + 2n^3) - (2n^3 + 3 + 5n)$ $3n - 10$	$(v^2 + 8 - 7v^3) + (4v - 10v^2 - 3)$

how the choice board resource works

Assign students the number of problems they need to complete from each column.

Name: _____ Date: _____ Period: _____

Adding & Subtracting Polynomials

Directions: Choose _____ problems from each column. Show your work in the boxes.

Adding Polynomials	Subtracting Polynomials	Adding & Subtracting
$(6 + 2x^2 - 5x^4) + (5x^2 - 6x^4 - 6)$	$(4x^3 + 2 - 2x^2) - (7x^3 - 1 - x^2)$	$(4c - 10c^4 - 7) - (4c + 10c^4 - 4)$
$(2x^4 + 6 - 8x^3) + (6 + 6x^3 - 3x^2)$	$(4x^2 + 6x^4 - 2x^2) - (7x^3 - 1 - x^2)$	$(k^2 + 3k^4 - 10k) + (8k^4 - 5k^2 + 7k)$
$(1 + x^4 - 2x) + (7x + 3x^4 - 5)$	$(8n - 7 + 2n^3) - (2n^3 + 3 + 5n)$	$(v^2 + 8 - 7v^3) + (4v - 10v^2 - 3)$
$(5m^2 + 7m - 8m^2) + (2m + 1 - m^4)$	$(4x + 7x^2 - 2) - (3x - 5x^2 - 5)$	$(b^2 - 8b^4 - 10b^3) - (4b^2 - b^3 + 10b^4)$

Differentiate the choice board worksheet by reducing the number of problems assigned to show mastery.

Students can complete the any problems they want to in each column and in any order.

how to use this resource

This is a great individual practice activity to use when reviewing how to add and subtract polynomial expressions.

My favorite ways to use this choice board is for homework and math practice stations.

This is also a **substitute-friendly** assignment!

Name: _____ **ANSWER KEY** _____ Date: _____ Period: _____

Adding & Subtracting Polynomials

Directions: Choose _____ problems from each column. Show your work in the boxes.

Adding Polynomials	Subtracting Polynomials	Adding & Subtracting
$(6 + 2x^2 - 5x^4) + (5x^2 - 6x^4 - 6)$ $-11x^4 + 7x^2$	$(4x^3 + 2 - 2x^2) - (7x^3 - 1 - x^2)$ $-3x^3 + x^2 + 3$	$(4c - 10c^4 - 7) - (4c + 10c^4 - 4)$ $-20c^4 - 3$

Name: _____ Date: _____ Period: _____

Adding & Subtracting Polynomials

Directions: Choose _____ problems from each column. Show your work in the boxes.

Adding Polynomials	Subtracting Polynomials	Adding & Subtracting
$(2x^4 + 6 - 8x^3) + (6 + 6x^3 - 3x^2)$ $2x^4 - 2x^3 - 3x^2 + 12$	$(6 + 2x^2 - 5x^4) + (5x^2 - 6x^4 - 6)$	$(4c - 10c^4 - 7) - (4c + 10c^4 - 4)$
$(1 + x^4 - 2x) + (7x + 3x^4 - 5)$ $4x^4 + 5x - 4$	$(4x^3 + 2 - 2x^2) - (7x^3 - 1 - x^2)$	$(k^2 + 3k^4 - 10k) + (8k^4 - 5k^2 + 7k)$
$(5m^2 + 7m - 8m^2) + (2m + 1 - m^4)$ $-m^4 - 3m^2 + 9m + 1$	$(2x^4 + 6 - 8x^3) + (6 + 6x^3 - 3x^2)$ $(4x^2 + 6x^4 - 2x^2) - (7x^3 - 1 - x^2)$	$(k^2 + 3k^4 - 10k) + (8k^4 - 5k^2 + 7k)$
$(6p - 7 - p^3) + (5p + 4 - 3p^4)$ $-3p^4 - p^3 + 11p - 3$	$(1 + x^4 - 2x) + (7x + 3x^4 - 5)$ $(8n - 7 + 2n^3) - (2n^3 + 3 + 5n)$	$(v^2 + 8 - 7v^3) + (4v - 10v^2 - 3)$

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!

The image shows a collage of algebra worksheets and a digital tablet. The worksheets include:

- Answer Key** for **ADDING & SUBTRACTING RATIONAL EXPRESSIONS** and **SOLVING SYSTEMS OF EQUATIONS**.
- MULTIPLYING & DIVIDING RATIONAL EXPRESSIONS** worksheet with problems like $\frac{x-2}{x^2+2x+1}$.
- SOLVING SYSTEMS OF EQUATIONS** worksheet with problems like $2. 2x - 6y = -18$ and $x = 3y - 4$.

The digital tablet displays a self-checking activity titled **Rational Expression Operations - Addition & Subtraction**. The directions are: "Answer each question and type the question number with the matching answer in the answer column to the right." The activity consists of a table with 8 questions and 8 answers, with a path of colored lines connecting the questions to their corresponding answers.

#	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 this activity too!

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