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WANT A FREE ALGEBRA ACTIVITY?

Join my email list by clicking on the image below and get a free, self-checking print & digital Algebra 1 & Algebra 2 activity!

You'll also get exclusive freebies, discounts, & tips for teaching Algebra.

The image shows a collage of algebra worksheets and a digital self-checking activity on a tablet. The worksheets include:

- Answer Key** for **ADDING & SUBTRACTING RATIONAL EXPRESSIONS**
- ADDING & SUBTRACTING RATIONAL EXPRESSIONS** (with handwritten solutions)
- SOLVING SYSTEMS OF EQUATIONS** (with handwritten solutions)
- FREE KEY** for **SOLVING SYSTEMS OF EQUATIONS** (with handwritten solutions)

The digital activity on the tablet is titled **Rational Expression Operations - Addition & Subtraction**. It includes a table with 8 questions and 8 answers, with a matching path highlighted in blue and yellow.

#	Question	Answer
1	$\frac{5}{x} + \frac{3}{x+1}$	$\frac{2x+1}{x+2}$
2	$\frac{2}{x+4} - \frac{x^2}{x^2-16}$	$-\frac{1}{x^2-16}$
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	$\frac{x^2+2x}{x^2-1} - \frac{x+1}{x-1}$	$\frac{x-2}{4x}$

ELECTION DAY ERROR ANALYSIS TEACHER DIRECTIONS

In this activity, students act as votes deciding which “candidate” solved each math problem correctly. Each Voting Booth question includes two candidates who show different solutions. One is correct and the others contain common errors. Students analyze each candidate’s work, identify the mistake(s), and “vote” for the correct candidate on their ballot sheet.

Materials Needed:

- Printed task cards or posters (Voting Booth questions)
- Ballot sheets (1 per student)
- Tape - if opting to display questions as posters
- Clipboards or notebooks (optional)
- Optional, but fun: “Ballot Box” for students to “cast their votes”

Set up:

1. Print & post each Voting Booth question around the classroom or at stations.
2. Print one ballot sheet per student and distribute

How to Use:

- Students move around the room going to each Voting Booth.
- At each Voting Booth, they review all of the candidates’ work.
- They vote for the candidate who solved it correctly and write a quick justification on their ballot.
- Once all problems are complete, students can drop their ballot in the “Ballot box”, if you choose to use one.
- Optional - you can review the correct answers together and tally class results for each question.

VOTER BOOTH #1

Completely factor: $6x^5 - 9x^3$

CANDIDATE: BENJAMIN FRANKLIN

$$6x^5 - 9x^3$$

$$\text{GCF: } 3x^3$$

$$3x^3(2x^2 - 3)$$

CANDIDATE: THOMAS JEFFERSON

$$6x^5 - 9x^3$$

$$\text{GCF: } 3x$$

$$3x(2x^4 - 3x^2)$$

VOTER BOOTH #2

Completely factor: $y^3 + 5y^2 - 4y - 20$

CANDIDATE: STEVE JOBS

$$y^3 + 5y^2 - 4y - 20$$

$$(y^3 + 5y^2 - 4y) - 20$$

$$y^2(y + 5 - 4) - 20$$

$$y^2(y + 1) - 20$$

$$(y^2 - 20)(y + 1)$$

CANDIDATE: JEFF BEZOS

$$y^3 + 5y^2 - 4y - 20$$

$$(y^3 + 5y^2) + (-4y - 20)$$

$$y^2(y + 5) - 4(y + 5)$$

$$(y^2 - 4)(y + 5)$$

$$(y - 2)(y + 2)(y + 5)$$

VOTER BOOTH #3

Completely factor: $16x^4 - 81$

CANDIDATE: TRAVIS KELCE

$$(4x^2)^2 - 9^2$$

$$(4x^2 - 9)(4x^2 + 9)$$

$$(2x - 3)(2x + 3)(4x^2 + 9)$$

CANDIDATE: JOSH ALLEN

$$(4x^2)^2 - 9^2$$

$$(4x^2 - 9)(4x^2 + 9)$$

VOTER BOOTH #4

Completely factor: $64x^4 + 1$

CANDIDATE: SPIDERMAN

$$(4x)^3 + (1)^3$$

$$(4x + 1)(16x^2 - 4x - 1)$$

CANDIDATE: HULK

$$(4x)^3 + (1)^3$$

$$(4x + 1)(16x^2 - 4x + 1)$$

VOTER BOOTH #5

Completely factor: $27y^3 - 8$

CANDIDATE: NELSON MANDELA

$$(3y)^3 - (2)^3$$

$$(3y - 2)(9y^2 + 6y + 4)$$

CANDIDATE: MAHATMA GANDHI

$$(3y)^3 - (2)^3$$

$$(3x - 2)(9y^2 - 6y - 4)$$

VOTER BOOTH #6

Completely factor: $3x^4 + 9x^3 - 2x^2 - 6x$

CANDIDATE: TAYLOR SWIFT

$$(3x^4 + 9x^3) + (-2x^2 - 6x)$$

$$3x^3(x + 3) - 2x(x + 3)$$

$$(3x^3 - 2x)(x + 3)$$

CANDIDATE: CHARLIE XCX

$$x(3x^3 + 9x^2 - 2x - 6)$$

$$x[(3x^3 + 9x^2) + (-2x - 6)]$$

$$x[3x^2(x + 3) - 2(x + 3)]$$

$$x(3x^2 - 2)(x + 3)$$

CAST YOUR VOTE!

Name: _____

Date: _____ Class: _____

VOTER BOOTH #1

VOTER BOOTH #4

VOTER BOOTH #2

VOTER BOOTH #5

VOTER BOOTH #3

VOTER BOOTH #6

CREDITS

THANK YOU TO ALL THE AMAZING
ARTISTS FOR THEIR BEAUTIFUL DESIGN
ELEMENTS IN THIS RESOURCE!

