

1

Simplify the expression below:

$$(4x^2 - 9x + 1) + (x^2 - 5x - 3)$$

Mrs. Wilson

- A) $5x^2 - 4x - 4$
- B) $5x^2 - 14x - 2$
- C) $5x^2 + 45x - 3$
- D) $5x^2 - 14x - 4$
- E) $5x^2 - 4x - 3$

5

Simplify the expression below:

$$(-3y^2 - 7y - 2) - (5y^2 + 4y - 5)$$

A) $-15y^2$

the 4th of July
Friday night
Halloween
Valentine's Day
the last day of school

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10

Simplify the expression below:

$$(11h + 8h^2) - (3h^2 - 9 + 9h)$$

- A) $5h^2 + 2h + 9$ to impress everyone
- B) $5h^2 + 2h - 9$ to promote world peace
- C) $5h^2 + 20h + 9$ to show how they are
- D) $5h^2 + 20h - 9$ to win a bet
- E) $5h^2 + 20h + 2$ to end world hunger

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ADDING & SUBTRACTING *Polynomials*

MATH LIB ACTIVITY

Created by: ALL THINGS ALGEBRA

Adding & Subtracting Polynomials

“Math Lib” Activity!

Objective: To practice adding and subtracting polynomial expressions.

Activity Directions: Print and post the ten stations around the room. Give each student the worksheet to record their work as they travel to the stations. Group students (I typically do groups of 3) and assign to a starting problem. Set the timer for 2-3 minutes (more if needed). Students simplify the expression at the station, then look for their answer and record the piece to the story. When the timer goes off, they move to the next station.

You are able to edit each slide to change the teacher name and all story elements to personalize for your students. PowerPoint is required to edit the slides. They enjoy seeing which one of their teachers is the “star” of the story!

Station 1: Simplify the expression below:
 $(4x^2 - 9x + 1) + (x^2 - 5x - 3)$
 A) $5x^2 - 4x - 4$
 B) $5x^2 - 14x - 2$
 C) $5x^2 + 45x - 3$
 D)
 E)

Station 5: Simplify the expression below:
 $(-3y^2 - 7y - 2) - (5y^2 + 4y - 5)$
 A) $-15y^2 - 3y + 3$
 B) $-15y^2 - 11y + 3$
 C) $-15y^2 - 11y - 7$
 D) $-15y^2 - 11y - 3$
 E) $-15y^2 - 11y + 7$

Station 10: Simplify the expression below:
 $(11h + 8h^2) - (3h^2 - 9 + 9h)$
 A) $5h^2 + 2h + 9$
 B) $5h^2 + 2h - 9$
 C) $5h^2 + 20h + 9$
 D) $5h^2 + 20h - 9$
 E) $5h^2 + 20h + 2$

Student Worksheet: Adding & Subtracting Polynomials "MATH LIB"!
 Directions: Simplify the expression at each station. Identify your answer and fill in the blank at the bottom to complete the story.

WRITE YOUR MATH LIB BELOW!

(1) _____ was (2) _____
 to be (3) _____ with
 (4) _____ on (5) _____ at
 (6) _____ in (7) _____ wearing
 (8) _____ while (9) _____ because
 they wanted (10) _____!

10 Stations & Student Worksheet
 (You can change the story elements!)