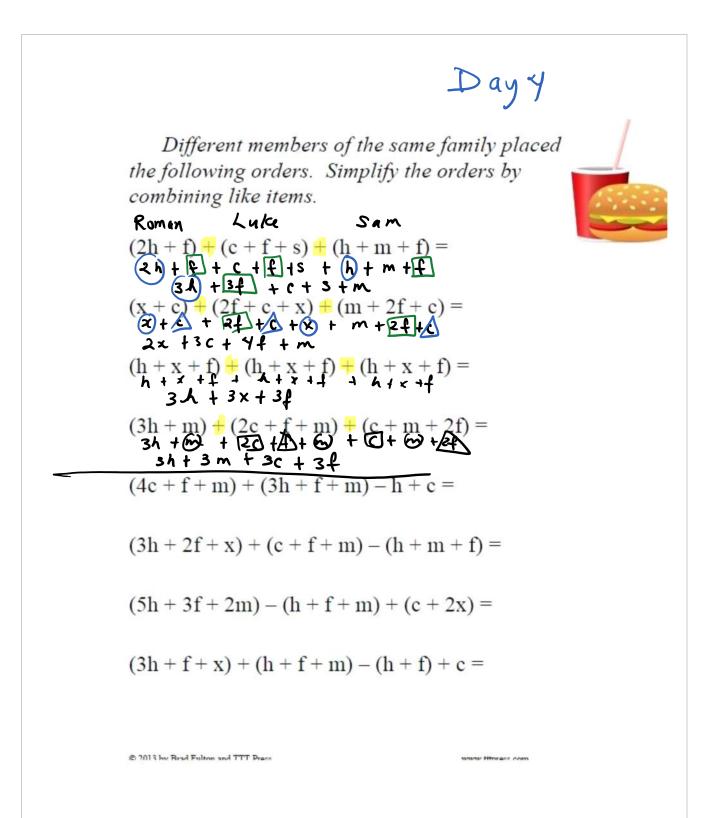
4 Adding Polynomials

January 1, 2020 9:22 PM



Like terms: 3x2 + x2 but x2dx2 are same variable & same Dayy
but 2'd 2 are same variable + same Dayy
NJT 17 A Home S 5.3 – Adding Polynomials
Focus: Use different Strategies to Add polynomials
Recall: $5x^2 - 4x + 6 - 2x^2 - 3 + 5x$ State the simplified polynomial by:
a) Rearranging the algebra tiles according to their shapes. b) Removing zero pairs.
c) Drawing the remaining tiles. Simplified Polynomial: $3x^2 + x + 3$
Adding Polynomials
When we write the sum of two polynomials, we write each polynomial in brackets.
To add polynomials, we can use a few different methods.
1) Using Algebra Tiles 2) Combine like terms by adding their coefficients
Ex. 1: Determine the sum of the polynomials $3x^2 + x - 4$ and $-4x^2 + 3x + 2$ using Algebra tiles.
$(3x^{2}+x-4) + (-4x^{2}+3x+2)$
Steps: ORenove brackets
[3] [3] [3] [3] [3x + +x -4 (4x + 3x +2)
Collect like terms
$\frac{1}{3}x^2 - \frac{4}{3}x + \frac{1}{3}x - \frac{1}{4}x + \frac{1}{3}x - \frac{1}{4}$
$-x^{2}+4x-2$ $-x + \sqrt{x} - 2$

