(Simplifying Polynomials Part 2) Adding and Subtracting Polynomials U2D6

A. Adding Polynomials

When adding polynomials, remove the brackets then collect		to simplify.
<u>Example 1:</u> Simplify.		
a) (3x + 2) + (5x + 3)	b) (-3n + 5) + (n – 4)	c) (6r + 5) + (4r − 1) + (-3r − 2)

Note: You cannot add the 8x with the 5 since they are not like terms... you may not simplify 8x + 5 any further.

B: Subtracting Polynomials

When subtracting polynomials, we ______ the ______. Opposites add to give 0. So, the opposite of 5 is _____. The opposite of -4x is _____.

Example 2: State the opposite of each polynomial.

Polynomial	Opposite
$3x^2 + 2x - 1$	
$-4x^3 + 2x^2 - 1$	
$(-3r^2 + 4r + 6)$	

Example 3: Simplify.

- a) (6r + 5) (4r + 1) b) (4d 1) (-1 3d) c) $(6m^2 5mn 5n^2) (-6m^2 + 4mn 7n^2)$

Is 4 + 2r the same or different from 2r + 4? ... They are ______... But, we usually write polynomials with the variable term first.

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