M8E: Unit 5.2: Adding and subtracting polynomials

* 1. Remember from last class:

2x2+3x-5 as algebra tiles look like:

3x2-4x +4 as algebra tiles look like:

What does (2x2+3x-5) + (3x2-4x-5) look like?

* 1. Rule: a positive sign in front of the ()'s DOES NOT change any of the signs inside the ()'s when we drop the ()'s

Ex: +(3x2-4x-5) =

Simplify:

* 1. (2x+4) + (3x-5) OR OR

=

ii) (3x -5x+3) + (-5x2+7x-9)

=

* 1. What about SUBTRACTING POLYNOMIALS?

RULE: a negative sign in front of the ()'s CHANGES ALL the signs inside the ()'s to the OPPOSITE sign when we drop the ()'s

Ex: -(x2 + 3x -5) =

Why? -(x2+3x-5) means the same as

Ex: (x2+5x-6) - (2x2+3x-10)

=

Ex: -(3x2+4x-5) - (2x2-3x-6)

=

Ex: 2(x+3) - (3x+5) - (4x+8)

=

-WB pg 167 #1, 3, 4, 6, 7, 8: all left column

-quiz next day on 'adding and subtracting polynomials'

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