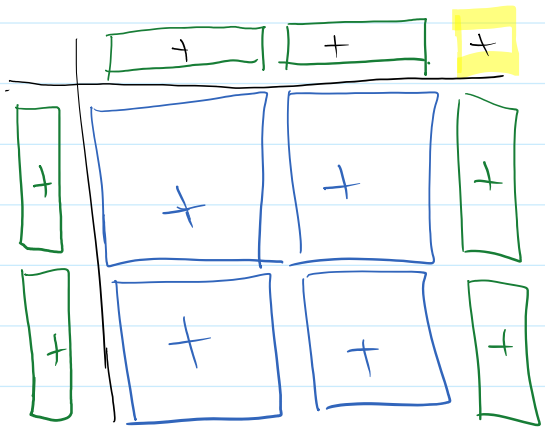
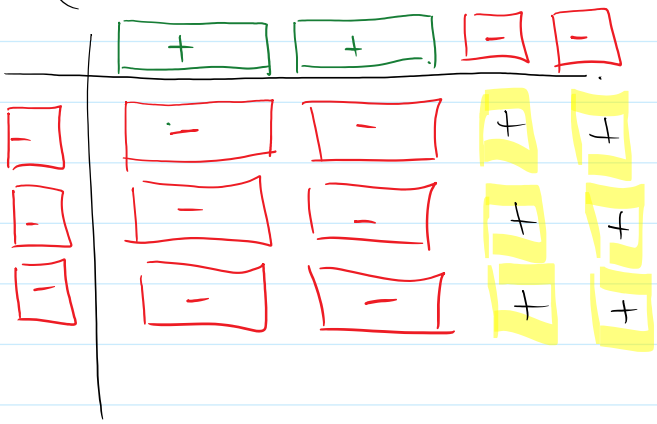
Multiplying Polynomials

Friday, October 18, 2019 10:18 AM

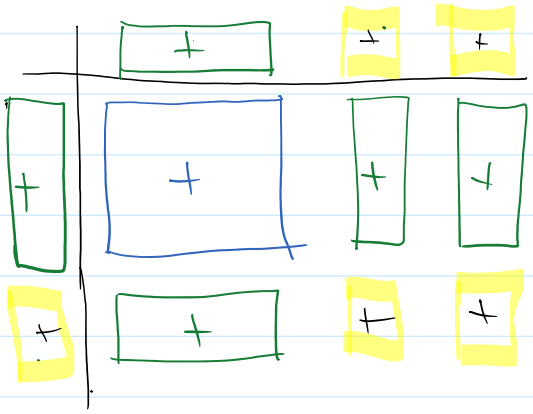
Model $2x(2x+1) = 4x^2 + 2x$



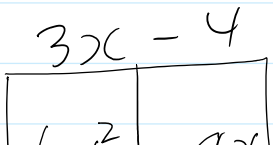
Model $-3(2x-2) = -6x + 6$



Model $(x+1)(x+2) = x^2 + 3x + 2$



$2x(3x-4)$



$2x(3x-4)$
$= 6x^2 - 8x$

$2x$	$6x^2$ | $-8x$

$(x+3)(x+4)$

	x	$+4$
x	x^2	$+4x$
$+3$	$+3x$	$+12$

$x^2 + 7x + 12$

$2x(3x-2) = 6x^2 - 4x$

$(x+2)(x+5) = x^2 + 5x + 2x + 10$
$= x^2 + 7x + 10$

Try:

① $2x(x-4)$

$2x^2 - 8x$

② $-3x(2x+5)$

	$2x$	$+5$
$-3x$	$-6x^2$	$-15x$

$-6x^2 - 15x$

③ $(x+4)(x+5)$

	x	$+5$
x	x^2	$+5x$
$+4$	$+4x$	$+20$

$= x^2 + 9x + 20$

$+4 \mid +4x \mid +20$

Worksheet #4