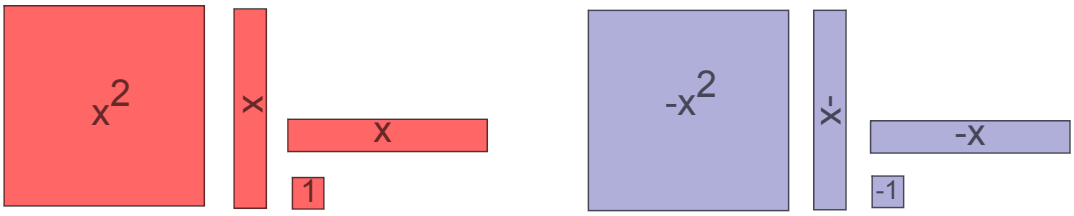
Recall: Multiplying two <u>linear</u> terms together forms an area.

We can often represent this multiplication using algebra tiles.

Mar 26-8:24 AM

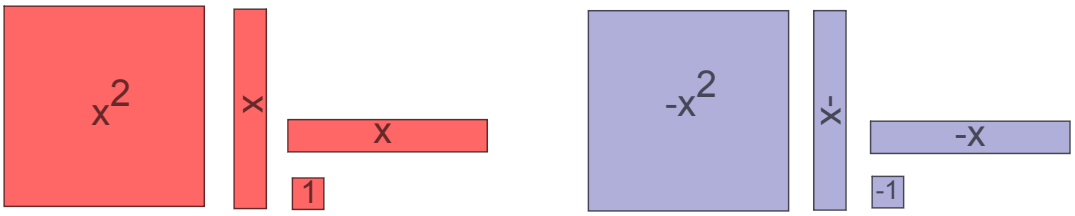


Evaluate: (2x - 1)(x - 2)

	x	-2
$2x$	$2x^2$	$-4x$
-1	$-x$	$+2$

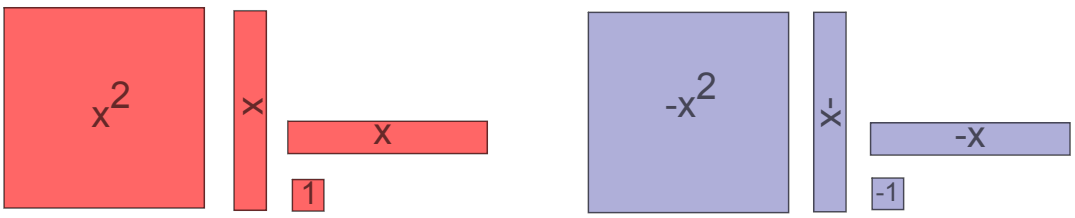
$2x^2 - 5x + 2$

Mar 25-8:02 AM



Evaluate: (2x - 1)(4 - x)

Mar 25-8:02 AM

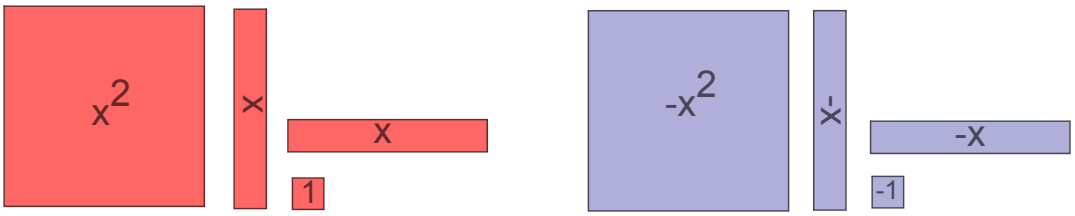


Evaluate: (x + y)(2x - y)

	$2x$	$-y$
x	$2x^2$	$-xy$
y	$2xy$	$-y^2$

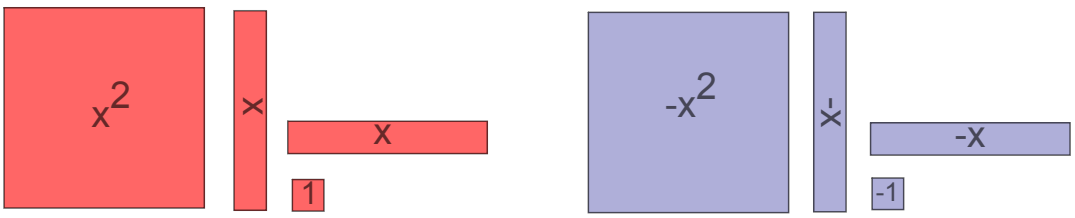
$2x^2 + xy - y^2$

Mar 25-8:02 AM



Evaluate: (2x + 7)(3x - 5)

Mar 25-8:02 AM

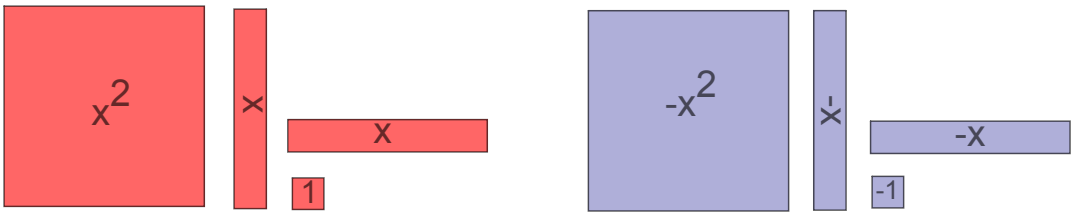


Evaluate: (5x - 4)(8x - 9)

	$8x$	-9
$5x$	$40x^2$	$-45x$
-4	$-32x$	$+36$

$40x^2 - 77x + 36$

Mar 25-8:02 AM



Evaluate: (4x)(7x)

	$7x$
$4x$	$28x^2$

Mar 25-8:02 AM

Unit 3 – Expanding + Factoring March 26/2010

Definitions:

1. Monomial - an expression with a single term

coefficient

$3x$ or 7 or $5xy$ or a^2bc^3

variable constant

2. Binomial - an expression with two terms

$(2x + 5)$ or $(a + 2b)$ or $(m^2 - pq)$

What is a term? constants or variables separated by multiplication or division

3. Trinomial - an expression with three terms

$x^2 + 5x + 6$ or $2xy + a + 5$

4. Polynomial - an expression with any number of terms.

Mar 26-8:43 AM

Distributive Property:

(a) $2x(3x - 4)$

$= 2x(3x) + 2x(-4)$

$= 6x^2 - 8x$

(b) $(2x + 3)(5x + 2)$

$= 2x(5x+2) + 3(5x+2)$

$= 10x^2 + 4x + 15x + 6$

$= 10x^2 + 19x + 6$

FOIL (First-Outer-Inner-Last)

(a) $(3x - 5)(2x + 7)$

$= 6x^2 + 21x - 10x - 35$

$= 6x^2 + 11x - 35$

Mar 26-8:58 AM

Assigned Work:

1. p.297 #(2, 3)(odd) - submit at the end of class

2. p.297 #(2, 3)(even), 7, 17bdf

2. Complete the thinking task for Monday

Mar 26-9:06 AM