

Aim: Multiply 2 Binomials (L3)

What does 5^2 mean? $5 \cdot 5$
 x^2 ? $x \cdot x$

① What does $(x+5)^2$ mean?

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

Going to use the tabular method.

combine like terms "add" \swarrow

x^2	$5x$	x
$5x$	25	5

\downarrow multiplying

$x^2 + 10x + 25$

② $(x+3)(x-2)$

combine like terms "add" \swarrow

x^2	$3x$	x
$-2x$	-6	-2

$x^2 + x - 6$

③ $(3x-5)(4x-2)$

$12x^2$	$-20x$	$4x$
$-6x$	$+10$	-2

$12x^2 - 26x + 10$

④

$$(x+2)(x-1)$$

x^2	$2x$	x
$-x$	-2	-1

$$x^2 + x - 2$$

⑤

$$(5y-2)(3y+1)$$

$15y^2$	$-6y$	$3y$
$5y$	-2	$+1$

$$15y^2 - y - 2$$