

Benchmark Review

Example

①

Multiply

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

	3x	2
2x	6x ²	4x
-5	-15x	-10

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

$$6x^2 - 11x - 10$$

②

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

	4x	-3y
2x	8x ²	-6xy
-3y	-12xy	+9y ²

$$8x^2 - 6xy - 12xy + 9y^2$$

$$8x^2 - 18xy + 9y^2$$

③

$$(3x + 5y)^2$$

$$(3x + 5y)(3x + 5y)$$

	3x	5y
3x	9x ²	15xy
5y	15xy	25y ²

$$9x^2 + 15xy + 15xy + 25y^2$$

$$9x^2 + 30xy + 25y^2$$

④

$$(6x - 2)(3x + 1)$$

	6x	-2
3x	18x ²	-6x
+1	6x	-2

$$18x^2 - 6x + 6x - 2$$

$$18x^2 - 2$$

⑤

$$(5x - 4y)(3x - y)$$

	5x	-4y
3x	15x ²	-12xy
-y	-5xy	+20y ²

$$15x^2 - 12xy - 5xy + 20y^2$$

$$15x^2 - 17xy + 20y^2$$