



MULTIPLYING BRACKETS DOUBLE BRACKETS

NO CALCULATOR

Ref: G232. **1E1**

A1 Expand $(2x + 7)(x - 5)$	A2 Expand $(5x + 3)(x + 6)$	A3 Expand $(4x - 7)(x - 2)$	A4 Expand $(3x - 5)(x + 4)$
B1 Expand $(2x + 5)(3x + 1)$	B2 Expand $(3x + 4)(4x - 5)$	B3 Expand $(3x - 7)(5x + 9)$	B4 Expand $(2x + 3)(2x - 3)$
C1 Expand $(x + y)(x - y)$	C2 Expand $(3x - y)(7x + y)$	C3 Expand $(2x + 5y)(3x - 2y)$	C4 Expand $(3x + 4y)(3x - 4y)$
D1 Expand $(x + y)^2$	D2 Expand $(2x + 3)^2$	D3 Expand $(5x - 2y)^2$	D4 Expand $(ax + by)^2$
E1 Expand $(x^2 + x + 5)(x + 2)$	E2 Expand $(x^2 + x - 3)(x - 2)$	E3 Expand $(x^2 + 2x - 5)(3x + 7)$	E4 Expand $(x^2 + x - 4)(x^2 - x + 1)$



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A1 Expand $(2x + 7)(x - 5)$ $2x^2 - 10x + 7x - 35$ $2x^2 - 3x - 35$	A2 Expand $(5x + 3)(x + 6)$ $5x^2 + 30x + 3x + 18$ $5x^2 + 33x + 18$	A3 Expand $(4x - 7)(x - 2)$ $4x^2 - 8x - 7x + 14$ $4x^2 - 15x + 14$	A4 Expand $(3x - 5)(x + 4)$ $3x^2 + 12x - 5x - 20$ $3x^2 + 7x - 20$
B1 Expand $(2x + 5)(3x + 1)$ $6x^2 + 2x + 15x + 5$ $6x^2 + 17x + 5$	B2 Expand $(3x + 4)(4x - 5)$ $12x^2 - 15x + 16x - 20$ $12x^2 + x - 20$	B3 Expand $(3x - 7)(5x + 9)$ $15x^2 + 27x - 35x - 63$ $15x^2 - 8x - 63$	B4 Expand $(2x + 3)(2x - 3)$ $4x^2 - 6x + 6x - 9$ $4x^2 - 9$
C1 Expand $(x + y)(x - y)$ $x^2 - xy + xy - y^2$ $x^2 - y^2$	C2 Expand $(3x - y)(7x + y)$ $21x^2 + 3xy - 7xy - y^2$ $21x^2 - 4xy - y^2$	C3 Expand $(2x + 5y)(3x - 2y)$ $6x^2 - 4xy + 15xy - 10y^2$ $6x^2 + 11xy - 10y^2$	C4 Expand $(3x + 4y)(3x - 4y)$ $9x^2 - 12xy + 12xy - 16y^2$ $9x^2 - 16y^2$
D1 Expand $(x + y)^2 = (x + y)(x + y)$ $x^2 + xy + xy + y^2$ $x^2 + 2xy + y^2$	D2 Expand $(2x + 3)^2 = (2x + 3)(2x + 3)$ $4x^2 + 6x + 6x + 9$ $4x^2 + 12x + 9$	D3 Expand $(5x - 2y)^2 = (5x - 2y)(5x - 2y)$ $25x^2 - 10xy - 10xy + 4y^2$ $25x^2 - 20xy + 4y^2$	D4 Expand $(ax + by)^2 = (ax + by)(ax + by)$ $a^2x^2 + abxy + abxy + b^2y^2$ $a^2x^2 + 2abxy + b^2y^2$
E1 Expand $(x^2 + x + 5)(x + 2)$ $x^2(x + 2) + x(x + 2) + 5(x + 2)$ $x^3 + 2x^2 + x^2 + 2x + 5x + 10$ $x^3 + 3x^2 + 7x + 10$	E2 Expand $(x^2 + x - 3)(x - 2)$ $x^2(x - 2) + x(x - 2) - 3(x - 2)$ $x^3 - 2x^2 + x^2 - 2x - 3x + 6$ $x^3 - x^2 - 5x + 6$	E3 Expand $(x^2 + 2x - 5)(3x + 7)$ $x^2(3x + 7) + 2x(3x + 7) - 5(3x + 7)$ $3x^3 + 7x^2 + 6x^2 + 14x - 15x - 35$ $3x^3 + 13x^2 - x - 35$	E4 Expand $(x^2 + x - 4)(x^2 - x + 1)$ $x^2(x^2 - x + 1) + x(x^2 - x + 1) - 4(x^2 - x + 1)$ $x^4 - x^3 + x^2 + x^3 - x^2 + x - 4x^2 + 4x - 4$ $x^4 - 4x^2 + 5x - 4$