



EXPANDING A BRACKET

MIXED FACTORS

Ref: G226. **1F3**

A1 Expand: $2x(x+3)$	A2 Expand: $3w(w+2)$	A3 Expand: $4x(w-8)$	A4 Expand: $7w(x+1)$
B1 Expand: $ax(x+7)$	B2 Expand: $bx(x-3)$	B3 Expand: $ab(x+5)$	B4 Expand: $ab(a-b)$
C1 Expand: $x^2(x-4)$	C2 Expand: $x^2(x+y)$	C3 Expand: $x^2(3+y)$	C4 Expand: $y^2(2-y)$
D1 Expand: $3x(x+y+3)$	D2 Expand: $ax(w+x+y)$	D3 Expand: $x^2(x+y-5)$	D4 Expand: $y^2(x-4+y)$
E1 Expand: $4x(2x+3)$	E2 Expand: $ax(4x+5)$	E3 Expand: $x^2(3x-2)$	E4 Expand: $ab(5x+1)$



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A1 Expand: $2x(x+3) = 2x^2 + 6x$	A2 Expand: $3w(w+2) = 3w^2 + 6w$	A3 Expand: $4x(w-8) = 4wx - 32x$	A4 Expand: $7w(x+1) = 7wx + 7w$
B1 Expand: $ax(x+7) = ax^2 + 7ax$	B2 Expand: $bx(x-3) = bx^2 - 3bx$	B3 Expand: $ab(x+5) = abx + 5ab$	B4 Expand: $ab(a-b) = a^2b - ab^2$
C1 Expand: $x^2(x-4) = x^3 - 4x^2$	C2 Expand: $x^2(x+y) = x^3 + x^2y$	C3 Expand: $x^2(3+y) = 3x^2 + x^2y$	C4 Expand: $y^2(2-y) = 2y^2 - y^3$
D1 Expand: $3x(x+y+3)$ $= 3x^2 + 3xy + 9x$	D2 Expand: $ax(w+x+y)$ $= awx + ax^2 + axy$	D3 Expand: $x^2(x+y-5)$ $= x^3 + x^2y - 5x^2$	D4 Expand: $y^2(x-4+y)$ $= xy^2 - 4y^2 + y^3$
E1 Expand: $4x(2x+3) = 8x^2 + 12x$	E2 Expand: $ax(4x+5) = 4ax^2 + 5ax$	E3 Expand: $x^2(3x-2) = 3x^3 - 2x^2$	E4 Expand: $ab(5x+1) = 5abx + ab$