



FACTORISING QUADRATICS

STAGE TWO

Ref: G227. **2F2**

A1 Factorise: $x^2 + x - 2$	A2 Factorise: $x^2 + x - 6$	A3 Factorise: $x^2 + x - 12$	A4 Factorise: $x^2 + x - 30$
B1 Factorise: $x^2 + 2x - 3$	B2 Factorise: $x^2 + 2x - 8$	B3 Factorise: $x^2 + 2x - 24$	B4 Factorise: $x^2 + 3x - 28$
C1 Factorise: $x^2 - 2x - 3$	C2 Factorise: $x^2 - 2x - 8$	C3 Factorise: $x^2 - 3x - 28$	C4 Factorise: $x^2 - 4x - 21$
D1 Factorise: $x^2 + 3x - 10$	D2 Factorise: $x^2 - 4x - 12$	D3 Factorise: $x^2 + 5x - 24$	D4 Factorise: $x^2 - 6x - 40$
E1 Factorise: $x^2 - 9x - 10$	E2 Factorise: $x^2 + 11x - 12$	E3 Factorise: $x^2 - 10x - 24$	E4 Factorise: $x^2 + 6x - 27$



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<p>A1 Factorise: $x^2 + x - 2$ → 1×2 $(x + 2)(x - 1)$</p>	<p>A2 Factorise: $x^2 + x - 6$ → 1×6 2×3 * $(x + 3)(x - 2)$</p>	<p>A3 Factorise: $x^2 + x - 12$ → 1×12 2×6 3×4 * $(x + 4)(x - 3)$</p>	<p>A4 Factorise: $x^2 + x - 30$ → 1×30 2×15 3×10 5×6 * $(x + 6)(x - 5)$</p>
<p>B1 Factorise: $x^2 + 2x - 3$ → 1×3 $(x + 3)(x - 1)$</p>	<p>B2 Factorise: $x^2 + 2x - 8$ → 1×8 2×4 * $(x + 4)(x - 2)$</p>	<p>B3 Factorise: $x^2 + 2x - 24$ → 1×24 2×12 3×8 4×6 * $(x + 6)(x - 4)$</p>	<p>B4 Factorise: $x^2 + 3x - 28$ → 1×28 2×14 4×7 * $(x + 7)(x - 4)$</p>
<p>C1 Factorise: $x^2 - 2x - 3$ → 1×3 $(x + 1)(x - 3)$</p>	<p>C2 Factorise: $x^2 - 2x - 8$ → 1×8 2×4 * $(x + 2)(x - 4)$</p>	<p>C3 Factorise: $x^2 - 3x - 28$ → 1×28 2×14 4×7 * $(x + 4)(x - 7)$</p>	<p>C4 Factorise: $x^2 - 4x - 21$ → 1×21 3×7 * $(x + 3)(x - 7)$</p>
<p>D1 Factorise: $x^2 + 3x - 10$ → 1×10 2×5 * $(x + 5)(x - 2)$</p>	<p>D2 Factorise: $x^2 - 4x - 12$ → 1×12 2×6 * 3×4 $(x + 2)(x - 6)$</p>	<p>D3 Factorise: $x^2 + 5x - 24$ → 1×24 2×12 3×8 * 4×6 $(x + 8)(x - 3)$</p>	<p>D4 Factorise: $x^2 - 6x - 40$ → 1×40 2×20 4×10 * 5×8 $(x + 4)(x - 10)$</p>
<p>E1 Factorise: $x^2 - 9x - 10$ → 1×10 * 2×5 $(x + 1)(x - 10)$</p>	<p>E2 Factorise: $x^2 + 11x - 12$ → 1×12 * 2×6 3×4 $(x + 12)(x - 1)$</p>	<p>E3 Factorise: $x^2 - 10x - 24$ → 1×24 2×12 * 3×8 4×6 $(x + 2)(x - 12)$</p>	<p>E4 Factorise: $x^2 + 6x - 27$ → 1×27 3×9 * $(x + 9)(x - 3)$</p>