

a Expand $(3x - 2y)^2$ $9x^2 - 12xy + 4y^2$ squaring with two letters	b Factorise $4x^2 - 4x - 15$ $(2x - 5)(2x + 3)$ the same coefficient in both brackets	c Factorise fully $18 - 2x^2$ $2(3 - x)(3 + x)$ two squares with x^2 negative	d Factorise fully $3x^3 - 12x^2 + 12x$ $3x(x - 2)^2$ a factor, then a perfect square
e Expand $(2x - 1)(x + 3)(3x - 2)$ $6x^3 + 11x^2 - 19x + 6$ three brackets with coefficients	f Factorise $6x^2 + xy - 2y^2$ $(3x + 2y)(2x - y)$ a quadratic in two letters	g Factorise $(2x + 1)^2 - (x - 3)^2$ $(x + 4)(3x - 2)$ two squares of brackets	h Factorise $3(x + 2)^2 - 5(x + 2) - 2$ $x(3x + 7)$ a quadratic in a bracket
i Factorise fully $x^4 - 16$ $(x - 2)(x + 2)(x^2 + 4)$ two squares twice	j Factorise fully $x^4 - 5x^2 + 4$ $(x - 1)(x + 1)(x - 2)(x + 2)$ a quadratic in x^2	k Factorise fully $x^3 + 2x^2 - x - 2$ $(x - 1)(x + 1)(x + 2)$ pairs, then two squares	l Factorise $4x^2 - 12xy + 9y^2 - 25$ $(2x - 3y - 5)(2x - 3y + 5)$ a perfect square, then two squares

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