

Algebra 2

Product of two binomial expressions (F.O.I.L. or crab-claw) Factors Factorisation Inequations Equations

1	Expand $2x(3x - 2y)$	$-2x(3x - 6)$	$-5xy (y - 2x)$
2	Factorise $3x + 6y$ Take out HCF (Express as product of two factors)	$12y - 15$	$2a^2 + 6a$
3	Factorise $p^2q - q^2p$ Take out HCF	$3x^3 - 6x^2 - 9x$	$a(x + y) + b(x + y)$
4	Expand $(x + 3)(x + 4)$	$(x + 1)(x + 5)$	$(x - 4)(x + 5)$
5	Expand $(x - 3)(x - 7)$	$(2x - 1)(x - 9)$	$(2x - 1)(3x + 1)$
6	Expand $(x - 3)(x + 3)$	$(x - 2)(x + 2)$	$(2x - 1)(2x + 1)$
7	Expand $(x + 1)^2$	$(2x - 1)^2$	$(3x + 5)^2$
8	Find the solution set for each of the following inequations and draw the graph of each set.	$x + 2 > 3$ _____ x→	$2x - 1 \geq 3$ _____ x→
9	As per 8 $x - 3 < 1$ _____ x→	$3x + 4 \leq 7$ _____ x→	$3 - x > 7$ _____ x→
10	Solve $x + 5 = 17$	$y - 5 = 11$	$a - 2\frac{1}{2} = 5$
11	Solve $6b = 18$	$7c = 154$	$\frac{t}{3} = 9$
12	Solve $6x + 4 = 28$	$6x - 4 = 26$	$7x - 3 = 60$
13	Solve $x - 4 = 4 - x$	$2x + 5 = 20 - x$	$7x + 3 = x + 21$
14	Solve $2(x + 4) = 10$	$4(3b - 1) = 2(4b + 6)$	$26 = 4(m - 1)$