

National 5 Homework

Algebraic Skills

Expressions and Brackets

1. Expand and simplify $(x + 3)(x^2 - 3x + 5)$.
2. Expand and simplify $(x - 4)(x + 2)(x - 1)$.
3. Multiply out the brackets and collect like terms
 $(2x + 1)(x^2 - 4x - 1)$.
4. Expand and simplify $(x - 5)(x + 2)(x + 3)$.
5. Multiply out the brackets and simplify $(3x - 5)(x - 3)(x - 1)$
6. Multiply out the brackets and collect the like terms
 $(x - 4)(x^2 + x - 2)$ **[SQA Paper 1 3 marks]**
7. Multiply out the brackets and collect like terms.
 $(x - 3)(x + 2)(x + 4)$
8. Multiply out the brackets and simplify $(x - 4)(x^2 - 4x + 3)$
9. Expand and simplify $(x + 6)(x^2 - x + 4)$.
10. Multiply out the brackets and collect like terms.
 $(x - 3)(x - 4)(x - 1)$.
11. Expand and simplify
 $(2x + 3)(x^2 - 4x + 1)$ **[SQA Paper 1 3 marks]**