1 Expand and Simplify $(x + 2)(x + 4)(x + 1)$

(3 marks)

2 Expand and Simplify $(x - 3)(x + 5)(x - 2)$

(3 marks)

3 Expand and Simplify $(x + 2)(x + 1)(x + 5)$

(3 marks)

4 Expand and Simplify $(x + 4)(x + 5)(x - 4)$

(3 marks)

5 Expand and Simplify $(x + 3)(x - 1)^2$

(3 marks)

6 Expand and Simplify $(x + 5)(x - 3)(2x - 1)$

(3 marks)

7 Expand and Simplify $(2x + 1)(x + 2)(x + 3)$

(3 marks)

8 Expand and Simplify $(2x - 3)(x - 2)(3x - 1)$

(3 marks)

9 Expand and Simplify $(x - 2)(3x + 2)(x + 5)$

(3 marks)

10 Expand and Simplify $(3x + 1)(x + 2)(x - 4)$

(3 marks)

| Grade 6 | Expanding Triple Brackets | |

11   Show that $(2x + 3)(5x + 2)(x - 5) = 10x^3 - 31x^2 - 89x - 30$

for all values of x.

(3 marks)

12   Show that $(2x - 1)(3x + 2)^2 = 18x^3 + 15x^2 - 4x - 4$

for all values of x.

(3 marks)

13   Show that $(3x - 1)(4x + 3)(x - 9) = 12x^3 - 103x^2 - 48x + 27$

for all values of x.

(3 marks)

14   Show that $(5x - 4)(3x + 1)(2x - 7) = 30x^3 - 119x^2 + 41x + 28$

for all values of x.

(3 marks)

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