1   Expand and simplify $(x + 1)(x + 2)(x + 5)$ **[3 marks]**

Answer _____

2   Expand and simplify $(x + 3)(x + 4)(x + 6)$ **[3 marks]**

Answer _____

3   Expand and simplify $(x + 5)(x - 2)(x + 1)$ **[3 marks]**

Answer _____

$\dfrac{}{9}$

4   Expand and simplify $(x - 3)(x - 4)(x + 2)$ **[3 marks]**

Answer

5   Expand and simplify $(y - 2)(y - 2)(y - 4)$ **[3 marks]**

Answer

6   Expand and simplify $(x + 5)(x + 3)^2$ **[3 marks]**

Answer

7   Expand and simplify $(x + 10)(x - 6)^2$ **[3 marks]**

Answer

8   Expand and simplify $(h - 5)^3$ **[3 marks]**

Answer

9   Expand and simplify $(x + 12)(x - 2)(x + 2)$ **[3 marks]**

Answer

18

Turn over ▶

10   Expand and simplify $(2x + 1)(x - 3)(x - 1)$ **[3 marks]**

Answer _____

11   Expand and simplify $(3p + 2)(2p + 1)(p + 5)$ **[3 marks]**

Answer _____

12   Expand and simplify $(3x + 1)(2x - 1)(4x - 1)$ **[3 marks]**

Answer _____

13   Show that $(3x + 1)(3x - 1)(2x + 3)$ can be written in the form

$ax^3 + bx^2 + cx + d$ where a, b, c and d are all integers.   **[3 marks]**

Answer _____

14   Show that $(5x + 1)(x - 3)(x - 2) - (x + 2)^2$ can be written in the form
$ax^3 + bx^2 + cx + d$ where a, b, c and d are all integers.   **[6 marks]**

Answer _____

18

Turn over ▶

15 $(x + 4)(x + 3)(x - 1) - (x + 2)(x - 2)(x + 5) \equiv (x + a)(x + b)$

Given that $a > b$, work out the values of a and b.   **[8 marks]**

$a = $ _____ $b = $ _____

8