Expanding Triple Brackets

SCAN ME

REVISE THIS TOPIC

CHECK YOUR ANSWERS

SCAN ME

1 Expand and simplify $(x + 1)(x + 2)(x + 5)$

.....

(Total for Question 1 is 3 marks)

2 Expand and simplify $(x + 3)(x + 4)(x + 6)$

.....

(Total for Question 2 is 3 marks)

3 Expand and simplify $(x + 5)(x – 2)(x + 1)$

.....

(Total for Question 3 is 3 marks)

4 Expand and simplify $(x - 3)(x - 4)(x + 2)$

.....

(Total for Question 4 is 3 marks)

5 Expand and simplify $(y - 2)(y - 2)(y - 4)$

.....

(Total for Question 5 is 3 marks)

6 Expand and simplify $(x + 5)(x + 3)^2$

.....

(Total for Question 6 is 3 marks)

7 Expand and simplify $(x + 10)(x - 6)^2$

.....

(Total for Question 7 is 3 marks)

8 Expand and simplify $(h - 5)^3$

.....

(Total for Question 8 is 3 marks)

9 Expand and simplify $(x + 12)(x - 2)(x + 2)$

.....

(Total for Question 9 is 3 marks)

10 Expand and simplify $(2x + 1)(x – 3)(x – 1)$

.....

(Total for Question 10 is 3 marks)

11 Expand and simplify $(3p + 2)(2p + 1)(p + 5)$

.....

(Total for Question 11 is 3 marks)

12 Expand and simplify $(3x + 1)(2x – 1)(4x – 1)$

.....

(Total for Question 12 is 3 marks)

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.

.....

(Total for Question 13 is 3 marks)

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.

.....

(Total for Question 14 is 6 marks)

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.

$a =$ .....

$b =$ .....

(Total for Question 15 is 8 marks)