

Expanding Double Brackets Mark Scheme		
1(a)	$x^2 - 2x - 35$	[1]
1(b)	$x^2 + 2x - 15$	[1]
1(c)	$x^2 - 49$	[1]
1(d)	$x^2 + x - 30$	[1]
1(e)	$x^2 + 9x + 8$	[1]
2(a)	$8x^2 - 12x + 8x - 12$ $8x^2 - 4x - 12$	[1]
2(b)	$14x^2 - 16x + 56x - 64$ $14x^2 - 40x - 64$	[1]
2(c)	$40x^2 + 15x - 8x - 3$ $40x^2 + 7x - 3$	[1]
2(d)	$14x^2 + 21x + 6x + 9$ $14x^2 + 27x + 9$	[1]
2(e)	$18x^2 - 6x - 24x + 8$ $18x^2 - 30x + 8$	[1]
3(a)	$-20x^2 + 12x + 10x - 6$ $-20x^2 + 22x - 6$	[1]
3(b)	$-12x^2 - 12x + 4x + 4$ $-12x^2 - 8x + 4$	[1]
3(c)	$-12x^2 + 8x - 15x + 10$ $-12x^2 - 7x + 10$	[1]
3(d)	$-12x^2 - 28x - 3x - 7$ $-12x^2 - 31x - 7$	[1]
3(e)	$-8x^2 + 5x + 64x - 40$ $-8x^2 + 69x - 40$	[1]
4(a)	$x^2 + 5x - 7x - 35 - (x^2 + 4x + 4)$	[1] – Correct expansion
	$-6x - 39$	[1] – Simplifying to correct answer
4(b)	$x^2 + 4x + 4 + 4x^2 + 8x + 4$	[1] – Correct expansion
	$5x^2 + 12x + 8$	[1] – Simplifying to correct answer
4(c)	$x^2 + 14x + 49 + 3x^2 + 3x - 2x - 2 - x$	[1] – Correct expansion
	$4x^2 + 14x + 47$	[1] – Simplifying to correct answer

Turn over ►

5	$(2x + 2)(x - 1) = 2x^2 + 2x - 2x - 2$	[1] – Correct expansion
	$2x^2 - 2$	[1] – Simplifying to correct answer
6	$\frac{1}{2}(2x + 2)(x + 10) = \frac{1}{2}(2x^2 + 20x + 2x + 20)$	[1] – Correct formula used and terms substituted in
	$x^2 + 11x + 10$	[1] – Expansion and simplifying to correct answer
7(a)	$110x - 5x^2 + 1540 - 70x$	[1] – Correct expansion
	$-5x^2 + 40x + 1540$	[1] – Simplifying to correct answer
7(b)	$-5(5)^2 + 40(5) + 1540$	[1] – Substitution of values
	£1615	[1] – Simplifying to correct answer

END