

Check #1

$$(n+2)(n+5)$$

	$n+2$	
n	n^2	$2n$
$+5$	$5n$	10

$$n^2 + \underline{2n} + \underline{5n} + 10$$

$$n^2 + 7n + 10$$

Now find the area

$$n+2$$

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Check #2

$$(n+4)(n+9)$$

$$n^2 + \underline{9n} + \underline{4n} + 36$$

$$n^2 + 13n + 36$$

Now find the product

$$(n+8)(n+6)$$

Check #3

$$(n-3)(n+10)$$

$$n^2 + \underline{10n} - \underline{3n} - 30$$

$$n^2 + 7n - 30$$

Now multiply

$$(n-5)(n+12)$$

Check #4

	$5x+1$	
$3x$	$15x^2$	$3x$
$+2$	$10x$	2

$$15x^2 + \underline{10x} + \underline{3x} + 2$$

$$15x^2 + 13x + 2$$

Now find the area

$$4x+1$$

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Check #5

$$(9x-2)(4x-4)$$

$$36x^2 - 36x - 8x + 8$$

$$36x^2 - 44x + 8$$

Now multiply

$$(5x-6)(7x-2)$$

Check #6

$$(6x+1)(3x-2)$$

$$18x^2 - 12x + 3x - 2$$

$$18x^2 - 9x - 2$$

Now find the product

$$(7x+5)(3x-4)$$

Check #7

	t^2	$+4t$	-3
t	t^3	$+4t^2$	$-3t$
$+2$	$+2t^2$	$+8t$	-6

$$t^3 + \underline{2t^2} + \underline{4t^2} + \underline{8t} - \underline{3t} - 6$$

$$t^3 + 6t^2 + 5t - 6$$

Now

$$x+2$$

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Check #8

$$(2t-3)(3t^2+2t+5)$$

$$6t^3 + 4t^2 + 10t$$

$$-9t^2 - 6t - 15$$

$$6t^3 - 5t^2 + 4t - 15$$

Now multiply;

$$(6a-2)(4a^2-a+3)$$

Check #9

$$(4t+1)(2t^2-7t+2)$$

$$8t^3 - 28t^2 + 8t$$

$$+ 2t^2 - 7t + 2$$

$$8t^3 - 26t^2 + t + 2$$

Now multiply;

$$(5x+2)(3x^2+x+1)$$

$$(n-5)(n+12)$$

$$n^2 + 12n - 5n - 60$$

$$n^2 + 7n - 60$$

$$(n+8)(n+6)$$

$$n^2 + 6n + 8n + 48$$

$$n^2 + 14n + 48$$

	n	$+8$
n	n^2	$8n$
$+2$	$2n$	16

$$n^2 + 8n + 2n + 16$$

$$n^2 + 10n + 16$$

$$(7x+5)(3x-4)$$

$$21x^2 - 28x + 15x - 20$$

$$21x^2 - 13x - 20$$

$$(5x-6)(7x-2)$$

$$35x^2 - 10x - 42x + 12$$

$$35x^2 - 52x + 12$$

	$3x$	$+2$
$4x$	$12x^2$	$8x$
$+1$	$3x$	2

$$12x^2 + 8x + 3x + 2$$

$$12x^2 + 11x + 2$$

$$(5x+2)(3x^2+x+9)$$

$$15x^3 + 5x^2 + 45x$$

$$+ 6x^2 + 2x + 18$$

$$15x^3 + 11x^2 + 47x + 18$$

$$(6a-2)(4a^2-a+3)$$

$$24a^3 - 6a^2 + 18a$$

$$- 8a^2 + 2a - 6$$

$$24a^3 - 14a^2 + 20a - 6$$

	x^2	$-8x$	$+4$
x	x^3	$-8x^2$	$4x$
$+2$	$2x^2$	$-16x$	8

$$x^3 + 2x^2 - 8x^2 - 16x + 4x + 8$$

$$x^3 - 6x^2 - 12x + 8$$