Expanding double brackets

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Name:

Expand and simplify:

a) $(x+3)(x+4)$

$x^2 + 7x + 12$

b) $(x+9)(x+3)$

$x^2 + 12x + 27$

c) $(x+2)(x+7)$

$x^2 + 9x + 14$

e) $(x+6)(x+6)$

$x^2 + 12x + 36$

f) $(x+5)(x+9)$

$x^2 + 14x + 45$

g) $(2+x)(x+2)$

$x^2 + 4x + 4$

Expand and simplify:

i) $(x+3)(x-5)$

$x^2 - 2x - 15$

j) $(x+4)(x-2)$

$x^2 + 2x - 8$

k) $(x-2)(x+7)$

$x^2 + 5x - 14$

m) $(x+4)(x-4)$

$x^2 - 16$

n) $(x+8)(x-5)$

$x^2 + 3x - 40$

o) $(a-5)(a+1)$

$a^2 - 4a - 5$

Expand and simplify:

i) $(2x+2)(x-4)$

$2x^2 - 6x - 8$

j) $(x+5)(2x-3)$

$2x^2 + 7x - 15$

m) $(x+5)(3x-5)$

$3x^2 + 10x - 25$

n) $(2x-5)(3x+3)$

$6x^2 - 9x - 15$

Exam question:

The rectangle has two dimensions as shown in the diagram (units are in cm).

Write an expression in the form $x^2 + bx + c$ for its area in cm².

$x^2 + 8x + 15$