

Expanding Single Brackets

Expand

- (a) $4(x - 3)$ (b) $2(3 + 4y)$
(c) $x(x + 4)$ (d) $x(7 - x)$
(e) $2x(x + 9)$ (f) $x(y + 3x)$
(g) $-2(4 + x)$ (h) $-(x - 6)$
(i) $-3x(6 - x)$ (j) $-y(x + y)$
(k) $x^2(3x + y)$ (l) $2y^2(y - x)$

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Expand and simplify

- (a) $2(x + 4) + 5(x + 7)$
(b) $3(a + 2) + 4(a - 1)$
(c) $4(p - 5) + 6(p - 1)$
(d) $2(x + 8) - 3(x + 2)$
(e) $5(x - 2) - 2(x - 9)$
(f) $3(2x + 1) - 4(x + 5)$
(g) $2(3x + 1) - (2x - 3)$
(h) $2(p - 4) + 3(2p - 1)$

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Expand and simplify

- (a) $x(x^2 - 2y) - 3x^2(x + 2y)$
(b) $a(a + 2b + 3c) + 3c(a - 2b + 3c)$
(c) $a(b - c + d) - a(b - c + d)$
(d) $6 + 2(x + 7)$
(e) $6 + 2(3 - x)$
(f) $6 - (2x + 3)$

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

(a) A rectangle has a width x cm and a length $x + 5$ cm. Write a simplified expression for the area of the rectangle.

(b) A triangle has a base of $4x$ cm and a height of $(3x - 5)$ cm. Find a simplified expression for the area of the triangle.

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