

Simplifying brackets

1) Multiply out:

- (a) $3(4x + 2y)$ (b) $5(2x - 5y)$ (c) $-4(2x - 3y)$ (d) $-3(2x - y)$
(e) $2x(3x + 4y)$ (f) $7x(3y - 4z)$ (g) $-3x(x - 5y)$ (h) $-y(2x - y)$

2) Multiply out and simplify:

- (a) $2(4x + 5) + 3(2x - 3)$ (b) $5(2x - 3) - 3(4x - 2)$ (c) $6(x - 2y) - 3(2x - y)$
(d) $3(5x + 2y) + 2(4x - 3y)$ (e) $6(x - 2y) - 1(4x - y)$ (f) $(5x - 2y) - (3x - 4y)$
(g) $2x(3y - 4z) + 3x(2y + z)$ (h) $4x(x - 2y) - 2y(3x - 3y)$ (i) $3x(2x - 3y) - y(3x - 2y)$
(j) $3x(y - 2z) - 2y(x + 3z)$ (k) $3x(2x - y) - 2y(3x - y)$ (l) $3x(x - 3y) - y(2x - y)$

3) Solve the following equations:

- (a) $3(2x + 5) = 39$ (b) $2(4x - 3) = -22$ (c) $4(5 - x) = 32$
(d) $5(2x - 3) = 12$ (e) $2(4x + 5) = 5(x - 2)$ (f) $3(5 - 2x) = 32$
(g) $4(3 - 2x) = 6(5 - x)$ (h) $3(4 - 5x) = 2(7 - 6x)$ (i) $3(2x - 4) = 7x$
(j) $3(x - 4) + 2(x + 2) = 10$ (k) $2(3x - 5) - 4(x - 6) = 8$ (l) $8x - (5x - 12) = 0$

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