Polynomials: collect terms and remove brackets — Further practice

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Further practice 11

Simplify.

$$7x - 3x + 2 - 9$$

Further practice 12

Simplify.

$$a - (2a - b) + 3b$$

Further practice 13

Expand each product, then simplify.

$$3(2x + 1) - 2(x - 4)$$

Further practice 14

Simplify and explain why xy and yx can be grouped.

$$2xy - 3yx + 5xy$$

Extension 15

A = 2x − 1 and B = x + 3. Find A − 2B. Keep the whole expression B in brackets first.

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

Extension 16

A learner writes 3(x − 2) = 3x − 2. Correct the expansion, then use x = 1 to show why the learner’s version fails.

$$3(x - 2)$$