Linear equations: collect like terms — Further practice

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Further practice 11

Solve 8x − 2x = −24.

$$8x - 2x = -24$$

Further practice 12

Solve 5x − 9x + 7 = 27.

$$5x - 9x + 7 = 27$$

Further practice 13

Solve −2x − 5x − 9 = 12.

$$-2x - 5x - 9 = 12$$

Further practice 14

Solve 10x − 6x + 3x = −14.

$$10x - 6x + 3x = -14$$

Extension 15

Solve 12x − 8x − 3x − 9 = 0. Explain why x remains after collecting the variable terms.

$$12x - 8x - 3x - 9 = 0$$

Extension 16

Solve −2x − 4x + 3x + 17 = −1. Check without changing the original order of the terms.

$$-2x - 4x + 3x + 17 = -1$$