Linear equations: transpose and verify — Further practice

Year 7, upper volume • text pp. 61–62 • foundation lesson 31

Further practice 11

Solve 9x + 4 = 5x − 12.

$$9x + 4 = 5x - 12$$

Further practice 12

Solve −2x − 9 = 4x + 3.

$$-2x - 9 = 4x + 3$$

Further practice 13

Solve 12 − 5x = 2x − 9.

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

Further practice 14

Solve 6x − 11 = −3x + 7.

$$6x - 11 = -3x + 7$$

Extension 15

Solve 2x + 3x − 8 = 7x − 4x + 6. Collect like terms on each side before transposing.

$$2x + 3x - 8 = 7x - 4x + 6$$

Extension 16

For 6x − 7 = 2x + 9, a learner writes 6x − 2x = 9 − 7 and then 4x = 2. Explain the first error and solve correctly.

$$6x - 7 = 2x + 9$$