QUADRATIC EQUATIONS
SOLVE BY FACTORISING

NO CALCULATOR

Ref: G233. **1S1**

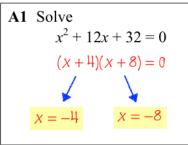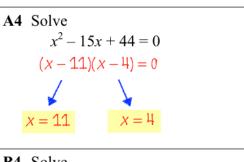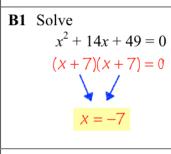|			
A1 Solve $$x^2 + 12x + 32 = 0$$	**A2** Solve $$x^2 - 8x + 15 = 0$$	**A3** Solve $$x^2 + 6x - 27 = 0$$	**A4** Solve $$x^2 - 15x + 44 = 0$$
B1 Solve $$x^2 + 14x + 49 = 0$$	**B2** Solve $$x^2 - 14x + 49 = 0$$	**B3** Solve $$x^2 - 14x + 48 = 0$$	**B4** Solve $$x^2 + 13x - 48 = 0$$
C1 Solve $$x^2 + 2x + 1 = 0$$	**C2** Solve $$x^2 - 4x + 4 = 0$$	**C3** Solve $$x^2 - 2x = 3$$	**C4** Solve $$x^2 + x = 2$$
D1 Solve $$x^2 = 13x - 30$$	**D2** Solve $$x^2 = 8x + 48$$	**D3** Solve $$x^2 = 12 - x$$	**D4** Solve $$x^2 - 20 = x$$

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A1 Solve
$$x^2 + 12x + 32 = 0$$
$$(x + 4)(x + 8) = 0$$
$$x = -4 \qquad x = -8$$
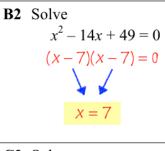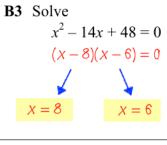
A2 Solve
$$x^2 - 8x + 15 = 0$$
$$(x - 5)(x - 3) = 0$$
$$x = 5 \qquad x = 3$$

A3 Solve
$$x^2 + 6x - 27 = 0$$
$$(x - 3)(x + 9) = 0$$
$$x = 3 \qquad x = -9$$

A4 Solve
$$x^2 - 15x + 44 = 0$$
$$(x - 11)(x - 4) = 0$$
$$x = 11 \qquad x = 4$$

B1 Solve
$$x^2 + 14x + 49 = 0$$
$$(x + 7)(x + 7) = 0$$
$$x = -7$$

B2 Solve
$$x^2 - 14x + 49 = 0$$
$$(x - 7)(x - 7) = 0$$
$$x = 7$$

B3 Solve
$$x^2 - 14x + 48 = 0$$
$$(x - 8)(x - 6) = 0$$
$$x = 8 \qquad x = 6$$

B4 Solve
$$x^2 + 13x - 48 = 0$$
$$(x - 3)(x + 16) = 0$$
$$x = 3 \qquad x = -16$$

C1 Solve
$$x^2 + 2x + 1 = 0$$
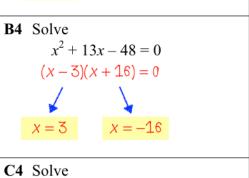$$(x + 1)(x + 1) = 0$$
$$x = -1$$

C2 Solve
$$x^2 - 4x + 4 = 0$$
$$(x - 2)(x - 2) = 0$$
$$x = 2$$

C3 Solve
$$x^2 - 2x = 3$$
$$x^2 - 2x - 3 = 0$$
$$(x - 3)(x + 1) = 0$$
$$x = 3 \qquad x = -1$$

C4 Solve
$$x^2 + x = 2$$
$$x^2 + x - 2 = 0$$
$$(x - 1)(x + 2) = 0$$
$$x = 1 \qquad x = -2$$

D1 Solve
$$x^2 = 13x - 30$$
$$x^2 - 13x + 30 = 0$$
$$(x - 10)(x - 3) = 0$$
$$x = 10 \qquad x = 3$$

D2 Solve
$$x^2 = 8x + 48$$
$$x^2 - 8x - 48 = 0$$
$$(x - 12)(x + 4) = 0$$
$$x = 12 \qquad x = -4$$

D3 Solve
$$x^2 = 12 - x$$
$$x^2 + x - 12 = 0$$
$$(x - 3)(x + 4) = 0$$
$$x = 3 \qquad x = -4$$

D4 Solve
$$x^2 - 20 = x$$
$$x^2 - x - 20 = 0$$
$$(x - 5)(x + 4) = 0$$
$$x = 5 \qquad x = -4$$

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