

Solving Quadratic Equations (D) by Completing the Square



Section A Solve the following equations.

1) $(x + 7)^2 - 9 = 0$ _____

3) $2(x + 5)^2 - 32 = 0$ _____

2) $(x - 4)^2 - 25 = 0$ _____

4) $5(x + 4)^2 - 180 = 0$ _____

Section B Solve the following equations by completing the square.
Leave your answers in surd form.

1) $x^2 + 4x - 30 = 0$ _____

5) $x^2 + 12x - 5 = 23$ _____

2) $x^2 + 18x - 21 = 0$ _____

6) $x^2 - 32x + 45 = -35$ _____

3) $x^2 - 6x - 3 = 0$ _____

7) $x^2 + 3x - 24 = 1$ _____

4) $x^2 - x - 7 = 0$ _____

8) $x^2 - 5x - 4 = 5$ _____

Section C Solve the following equations by completing the square.
Leave your answers to one decimal place.

1) $2x^2 + 4x - 18 = 0$ _____

4) $2x^2 + 5x - 10 = 0$ _____

2) $2x^2 + 8x - 5 = 0$ _____

5) $5x^2 = 5x + 1$ _____

3) $3x^2 - 12x + 4 = 0$ _____

6) $2x^2 - 3x = 3$ _____

Extension

A. The solutions to the equation $2x^2 + ax + b = 0$ are $x = 2 + \sqrt{\frac{11}{2}}$
Find the value of a and b .

B. Starting with $ax^2 + bx + c = 0$ prove the quadratic formula $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

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JR Anderson



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