

Worksheet: Solving Quadratic Equations by Factorisation

When you can factorise a quadratic expression you can use the result to solve the associated quadratic equation and, in turn, sketch the quadratic function.

Solving Quadratic Equations by Factorisation study guide



Model Answers to this Sheet



- Solve the following quadratic equations by factorisation;
 - $x^2 + 2x + 1 = 0$
 - $x^2 + 8x + 7 = 0$
 - $x^2 + 8x + 12 = 0$
 - $x^2 + 7x + 12 = 0$
 - $x^2 + 13x + 12 = 0$
 - $x^2 - 7x + 12 = 0$
 - $x^2 - 8x + 12 = 0$
 - $x^2 - 13x + 12 = 0$
- Solve the following equations by factorisation;
 - $x^2 - 12 = x$
 - $x + 1 = 12/x$
 - $x^2 = 3x + 10$
 - $10 - 3x - x^2 = 0$
- Solve the following equations by factorisation;
 - $6x^2 - 3x = 0$
 - $x^2 = 100$
 - $1 - x^2 = 0$
 - $-4x^2 = -36$
 - $7x^2 = 2$
 - $\frac{x^2}{4} = 1$



This worksheet is one of a series on mathematics produced by the Learning Enhancement Team.

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