

Quick Guide to the Quadratic Equation

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$



Remember $x^2 + bx + c = 0$?

a and b are equal to the numbers next to x^2 and bx. If there is no number, use 1.



Plug and Play

Use the numbers for a, b, and c in the formula highlighted in green above.



Something Look Funny?

If the terms don't have the $x^2 + bx + c$ format, then use algebra to make sure all numbers show on the left side of the "=" sign.



Alternative: Complete Square of $x^2 + bx + c = 0$

Divide all terms by a. Move c/a to the right side of the equation. Work out the left side of the equation (complete the square) and balance it.



Quadratic Equations Unit Guide

Jann H. Leppien, Jeanne H. Purcell

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the authors' names.

Quadratic Equations Unit Guide:

Parallel Curriculum Units for Mathematics, Grades 6-12 Jann H. Leppien, Jeanne H. Purcell, 2011-04-07 Parallel Curriculum Units for Mathematics Grades 6-12 combines four essential models for improving student understanding and growth in mathematics. The lessons provided in the textbook build on students' abilities so they can see all parts of a math problem and are able to tackle and understand it at various levels. Elizabeth Alvarez, Assistant Principal, John C. Dore Elementary, Chicago, IL. Maximize your mathematics curriculum to challenge all students. This collection of lessons building on material presented in the best-selling *The Parallel Curriculum* is written by experienced teachers who provide innovative and challenging learning opportunities for students in Grades 6-12. The four sample units focus on fractions, linear programming, geometry, and quadratic relationships. The authors provide user-friendly methods for creating high-quality lessons and demonstrate how to differentiate these lessons for the benefit of all students. Included are field-tested and standards-based strategies that guide students through understanding secondary-level mathematics concepts, discovering connections between mathematics and other subjects, developing critical thinking skills, connecting mathematics learning to society through the study of real-world data, proportional reasoning, and problem solving. Each unit includes subject-matter background, a content framework, study components, teacher reflections, and sample lessons. Learn from the experts and enhance your mathematics curriculum with these proven strategies.

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