

Algebra Two Unit 7A: Quadratic Equations

Essential Questions | Enduring Understandings | Knowledge | Skills | Assessment Evidence | Core Problems | Learning Plan

- EQ.1 How are moves used to solve linear equations similar to those used to solve quadratic equations?
- EQ.2 What features of a quadratic equation influence the method you choose to use to solve it?
- EQ.3 Why is the process of completing the square called completing “the square”?

EU.1 TBD

KN.1 The Quadratic Formula

- SK.1 Solving a quadratic equation by isolating the squared term.
- SK.2 Solving a quadratic equation by factoring then setting factors equal to zero
- SK.3 Solving a quadratic equation by completing the square
- SK.4 Solving a quadratic equation using the Quadratic Formula

AE.1 TEST on Friday, February 23

- CP.1 Solve $5(4x - 7)^2 - 12 = 108$ by isolating the squared term.
- CP.2 Solve $2(x - 5)(x + 12) = 0$ by setting factors equal to zero.
- CP.3 Solve $x^2 - 14x - 24 = 0$ by factoring then setting factors equal to zero.
- CP.4 Solve $x^2 + 5x - 4 = 0$ by completing the square.
- CP.5 Solve $4x^2 - 12x = 9$ by completing the square.
- CP.6 Solve a quadratic equation in to determine the two numbers with a sum of 20 and product of 96.

LP Mo.2.12: PS 7A 01: A Re-Introduction to Quadratic Equations (1-13)

LP Tu.2.13: PS 7A 02: Perfect Square Trinomials (1-24 even)

LP We.2.14: PS 7A 03: Completing the Square (1-17)

LP Th.2.15: PS 7A 04: Comp. the Square when Coeff. of x^2 is Not Equal to One (1-6 all, 8-20 even)

LP Fr.2.16: PS 7A 05: Deriving the Quadratic Formula (1-3, 4, 6, 8, 10 + *study derivation of QF*)

LP M0.2.19: PS 7A 06: The Discriminant [*Optional Problem Set*] (1-7)

LP Tu.2.20: PS 7A 07: Applications of Quadratic Equations (1-10 odd)

LP We.2.21: PS 7A 08: Mixed Practice Solving Quadratic Equations (1-16)

LP Th.2.22: Flex Day / Review Day

LP Fr.2.23: TEST: Quadratic Equations