

Grade 10 - 12

Distance Learning Module 3 - Week of: April 13th through April 17th

Mathematics: Algebra II, Level 3 - Modified from [Unit C - Quadratic Equations and Parabolas](#)

Targeted Goals from Stage 1: Desired Results

Content Knowledge: The purpose of this unit is to move beyond linear functions and to learn strategies to solve quadratic equations. Students should understand that the power of 2 creates a specific shaped graph (parabola). As such, a quadratic equation may have 0, 1 or 2 solutions (real or imaginary)

Vocabulary: Factor, Sum, Term, Linear, Product, Common Factor, Perfect Square Trinomial, Distribute, Zero Product

Skills: Multiply Binomials, Finding a Greatest Common Factor, Find two numbers given their Sum and Product, Solving One or Two Step Linear Equations (Zero Product Property), Factor Trinomials

Expectation:

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Monday: Review of Multiplying Binomials	Video: Multiplying Binomials	Worksheet: Multiplying Binomials
Tuesday: Factoring is Opposite of Multiplying	Video: Factoring Trinomials	Worksheet: Find Two Numbers Given Sum and Product Worksheet: Factoring Quadratics $a = 1$
Wednesday: Set Equation equal to zero and the Zero Product Property	Khan Video: Zero Product Property	Khan Academy Four Questions Zero Product Property Worksheet: Solving Quadratic Equations $a = 1$.
Thursday: Factor out GCF to get $a = 1$	Video: Factor GCF to get $a = 1$	Worksheet: Factor GCF to get $a = 1$

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Friday: Factoring Perfect Square Trinomials	Video: Factoring Perfect Square Trinomials	Worksheet: Factoring PST a = 1 Worksheet: Factoring PST Challenge

Week criteria for success (attach student checklists or rubrics):

Students will be able to:

1. Factor a Quadratic Equation when the leading coefficient is 1
2. Factor a Quadratic Equation by Factoring out a GCF to get a leading coefficient = 1
3. Apply the Zero Product Property to solve for (find the roots) of a Quadratic Equation
4. Factor Quadratic Equation of the Special Case of a Perfect Square Trinomial

Supportive resources and tutorials for the week (plans for re-teaching): Khan Academy, Kuta Software worksheets, office hours

remediation material for Factoring and Solving Quadratic Equations