*Grade 9* Distance Learning Module #8: Week of: May 26<sup>th</sup> – May 29<sup>th</sup> Completing the square

## Algebra I, Level 2 - Modified from Unit F - Beyond Straight Lines

## **Targeted Goals from Stage 1: Desired Results**

**Content Knowledge:** Completing the square is a useful strategy in many mathematical contexts - in Algebra I, we can use to find solutions to quadratic equations that are unfactorable. We can also use it to convert a quadratic equation from standard to vertex form.

## Vocabulary: completing the square

**Skills:** completing the square to solve quadratic equations, completing the square of a quadratic equation to find the max or min of the function (vertex)

## **Expectation:**

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Monday:		
No School (Memorial Day)		
Tuesday:	Live instructional session: Introduction to	Completing the square practice worksheet
Introduction to completing the square	completing the square	
Wednesday:	Khan Academy:	Khan Academy:
Introduction to solving quadratic equations by	Worked example: Solving equations by	Completing the square (intro) (practice)
completing the square	completing the square (video)	Solving quadratics by completing the square (article)
Thursday:	Live instructional session: Solve quadratic	Thursday Solving Quadratic Equations By
Solving equations by completing the square	equations by completing the square (including	Completing the Square.pdf : Do #3-8, 11, 14,
	no solution)	24

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Friday:	Live instructional session: Converting a	Completing the square to convert to vertex
Convert to vertex form by completing the	quadratic function to vertex form by	form practice worksheet
square	completing the square	

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

By the end of this module, students will be able to:

- Find the constant term of a perfect square trinomial.
- Solve a quadratic equation by completing the square.
- Convert a quadratic function from standard to vertex form by completing the square.

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