

# Mathematics Class Slides

## Bronx Early College Academy

Chris Huson

28 January 2020

5.1 Solving quadratic equations

Wednesday 29 January

5.2 Quadratic functions where  $a \neq 1$

Thursday 30 January

5.3 Solving quadratic equations

Friday 31 January

5.4 Quadratic formula

Monday 3 February

## GQ: How do we factor and solve quadratic equations?

CCSS: HSF.IF.C8.A Factor quadratic functions to show zeros 5.1 Wednesday 29 January

### Do Now: Quadratic functions

1. Function operations, composition, inverse
2. Interpreting quadratic functions in vertex form
3. Solving graphical situations

Exam makeup: Dayna, Monica, Wendy

(collect take-homes from vector group)

Lesson: Factored form; "solutions," "roots," "zeros,"  $x$ -intercepts

Quadratic functions pp. 233-236

Homework: Textbook exercises 6B (Deltamath)

## GQ: How do we graph quadratics when $a \neq 1$ ?

CCSS: HSF.IF.C8.A Factor quadratic functions to show zeros 5.2 Thursday 30 January

### Do Now: Solving quadratic equations

1. Factoring quadratic functions
2. Interpreting quadratic functions in vertex form
3. Solving graphical situations

Lesson: Vertical stretch, the  $a$  parameter

The axis of symmetry

Homework: Textbook exercises 6C (Deltamath)

## GQ: How do we factor by “completing the square”?

CCSS: HSF.IF.C8.A Complete the square of quadratic functions 5.3 Friday 31 January

### Do Now: Solving quadratic equations

1. Graphing quadratic functions
2. Factoring quadratic functions
3. Solving graphical situations

Lesson: Completing the square, converting to vertex form

Homework: Textbook exercises 6D (Deltamath)

## GQ: How do we use the quadratic formula?

CCSS: HSF.IF.C8.A Complete the square of quadratic functions 5.4 Monday 3 February

### Do Now: Solving quadratic equations

1. Completing the square
2. Graphing quadratic functions
3. Factoring quadratic functions

Lesson: Completing the square, converting to vertex form

Homework: Textbook exercises 6D (Deltamath)