Mathematics Class Slides
Bronx Early College Academy

Chris Huson

28 January 2020

BECA / Dr. Huson / IB Math Unit 5 - Polynomial functions

GQ: How do we factor and solve quadratic equations?
CCSS: HSF.IF.C8.A Factor quadratic functions to show zeros   5.1 Tuesday 28 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: Deltamath Factoring (continue textbook problems)

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

CCSS: HSF.IF.C8.A Factor quadratic functions to show zeros 5.2 Wednesday 29 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: Deltamath Completing the square, due Thursday
(continue textbook problems)

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

Classwork counts double while Dr. Huson is out!

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

Please complete Workplace Visits career questionaire.

Lesson: Completing the square, converting to vertex form

Homework: Deltamath due Sunday 10:00pm (continue textbook problems)

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: Deltamath due tomorrow 10:00pm
  (continue textbook problems)

GQ: How do we know the number of solutions of a quadratic function?

CCSS: HSF.IF.C8.A Complete the square of quadratic functions 5.5 Tuesday 4 February

Do Now Quiz: Calculator practice

1. Graphical solutions of systems of functions
2. Linear regression
3. Frequency tables
4. Complex calculations (e.g. cosine rule)

Lesson: Using the discriminant, D or Δ

Homework: Deltamath due tonight 10:00pm (continue textbook problems)

GQ: How do we know the number of solutions of a quadratic function?

CCSS: HSF.IF.C8.A Complete the square of quadratic functions   5.6 Wednesday 5 Feb

Do Now: Solving quadratic equations

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

Lesson: Completing the square, converting to vertex form

Homework: Deltamath due tonight 10:00pm (continue textbook problems)

GQ: How do we graph polynomial functions?

CCSS: HSF.IF.C8.A Complete the square of quadratic functions 5.7 Thursday 6 February

Do Now: Solving quadratic equations

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

Lesson: Features of polynomial graphs, increasing/decreasing

Homework: Deltamath (continue textbook problems)