Mathematics Class Slides Bronx Early College Academy

Chris Huson

25 November 2019

- 6.1 Intro to the coordinate plane and linear functions, 25 November
- 6.2 Laptop practice Geogebra graphing functions on coordinate plane, 26 November
- 6.3 Coordinate geometry practice, 27 November
- 6.4 Assessment: distance formula, Monday 2 December
- 6.4 Assessment: distance formula, Monday 2 December
- 6.5 Laptop practice Geogebra distance and the Pythagorean theorem, 3 December

GQ: How do we plot lines on the coordinate plane?

CCSS: HSG.CO.A.1 Know precise geometric definitions 6.1 Monday 25 Nov

Do Now: Plotting points and lines

- 1. Modeling geometric situations with an algebraic equation
- 2. Slope-intercept form of linear equations
- 3. Dilation of a line centered at the origin

Review exam results

Lesson: Perpendicular and parallel slopes

Homework: Test corrections due tomorrow

GQ: How do we work on the coordinate plane?

CCSS: HSG.CO.A.1 Know precise geometric definitions 6.2 Tuesday 26 Nov

Do Now: Deltamath practice

- 1. Graphing linear equations
- 2. Perpendicular and parallel slopes
- 3. Function and algebraic manipulations
- 10.1 meets in Room 414 first period tomorrow (advisory schedule)

Homework: Complete Deltamath homework section

GQ: How do we plot lines on the coordinate plane?

CCSS: HSG.CO.A.1 Know precise geometric definitions 6.3 Wednesday 27 Nov

Do Now: Plotting points and lines

- 1. Modeling geometric situations with an algebraic equation
- 2. Slope-intercept form of linear equations
- 3. Dilation of a line centered at the origin

Review exam results

Lesson: Perpendicular and parallel slopes

Homework: Test corrections due tomorrow

GQ: How do we plot lines on the coordinate plane?

CCSS: HSG.CO.A.1 Know precise geometric definitions 6.4 Monday 2 Dec

Do Now: Plotting, measuring, and translating on the x-y plane

- 1. Measure horizontal and vertical distances
- 2. Measure diagonal distances
- 3. Parabolas, quadratic functions, & function translation

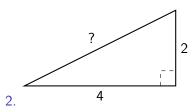
Lesson: the distance formula (Pythagorean theorem)

Review perpendicular and parallel slopes

Homework: Khan Academy distance practice

Assessment: Distance formula (on looseleaf paper)

1. Given
$$A(7,5)$$
 and $B(7,-4)$, find AB .



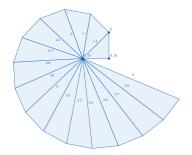
3. What is the length of \overline{CD} if C(1,-2) and D(7,6)?

GQ: How do we calculate distance given coordinates?

CCSS: HSG.CO.A.1 Know precise geometric definitions

6.5 Tuesday 3 Dec

Project paper: Use paper & pencil or MS Word & Geogebra



- 1. Radical spiral
- 2. Angle measures on the coordinate plane

Lesson: Drawing perpendicular figures in Geogebra

Homework: Complete Khan Academy homework section