

Mathematics Class Slides

Bronx Early College Academy

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18 October 2018

4.1 Transversals & parallel lines, 18 October

4.2 Sum of a triangle's internal angle measures is 180 degrees, 21 October

4.3 Laptops, 22 October

GQ: How do we work with parallel lines?

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

4.1 Friday 18 Oct

On scrap paper, practice constructions

1. A perpendicular through a point on a lines
2. Bisect an obtuse angle
3. Spicy: a hexagon (six adjacent equilateral triangles)

Review Khan Academy homework (worksheet homework makeup)

Lesson: Parallel lines crossed by a transverse line

Corresponding angles, alternate and same-side relationships

Axiom: corresponding angles are congruent when a transverse line intersects two parallels

Homework: Problem set 4-1 online Khan Academy

GQ: How do we calculate the sum of a \triangle 's internal angle measures?

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

4.2 Monday 21 Oct

Angle situations

1. Model each situation. You do not need to solve the equation, but circle where it states what to solve for.
2. Three angles are supplementary
3. Model area leading to a quadratic equation
4. Use the properties of radii of a circle

Lesson: Sum of a triangle's internal angle measures is 180°

Homework: Problem set 4-2

GQ: How do we construct an angle bisector?

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

4.3 Tuesday 22 Oct

Laptops: Construct an angle bisector

1. Use Geogebra to construct an angle bisector
2. Write a short (one page) paper presenting your work
 - ▶ Use MS Word and follow MLA standards. (save as a template to the cloud)
 - ▶ What is the first step in your construction? What is its center?
 - ▶ How does Geogebra adjust the circles and rays as you move things around?

Early finishers: Khan Academy practice with parallel lines

Homework: Pretest problem set 4-3