Mathematics Class Slides

Bronx Early College Academy

Chris Huson

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

Exam followup

1. B bisects $\overline{AC}$ with $AB = 3x$, $AC = 24$. Diagram & solve.
2. A ray's end point is T. It extends through point P. Diagram & name using proper notation.
3. Dr. Huson commutes from 80th Street. At what street is he half way to BECA?
4. Exam early finishers problems

Review exam results; Test corrections due Friday
Peer review of angle bisector papers
Lesson: Sum of a triangle's internal angle measures is 180°

Homework: Problem set 4-2 Khan Academy complex angle situations

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 and triangles

Homework: Pretest problem set 4-3