Mathematics Class Slides

Bronx Early College Academy

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13 November 2018

Project criteria

Notetaking criteria

2.13 Project: Triangle centers project, Wednesday 31 October

3.1 Drui: Deltamath. Tuesday 16 October

3.2 Drui: Isosceles. Wednesday 14 November

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GQ: How do we present mathematical work?

CCSS: HSG.CO.D.12 Congruence, Make geometric constructions

Complete binder - project grade
Exams & corrections
Best examples of each basic construction:
Equilateral $\triangle$, $\cong$ segment & $\angle$s, bisected segment & $\angle$, $\perp$s
$\triangle$ concurrencies, compound constructions

Criteria for construction projects

1. Complete and correct construction
2. Steps written with proper notation
3. Layout: GQ title, date on left; first & last name on right
4. Precise, elegant, mathematical aesthetic

GQ: How do we organize our mathematical notes?

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

Criteria for notebook project grade (20 points)

1. Your name and "Geometry" on cover
2. Toward front: math.huson.com, husonbeca@gmail.com, 917-648-5632, Deltamath teacher ID: 546068
3. Labeled composition book out during class; GQ, date each day
4. Definitions, postulates, constructions, & theorems
5. Combination of symbols, diagrams, text (best: your own words)
6. Examples, but not practice problem sets

Grading policy: daily tracker, pop notebook checks

GQ: How do we construct the centroid, circumcenter, incenter, and orthocenter?

CCSS: HSG.CO.C.9 Prove geometric theorems 2-13

Construction project: Triangle centers

1. Circumcenter: perpendicular bisectors
2. Incenter: angle bisectors
3. Orthocenter: altitudes (perpendiculars through vertices)
4. Centroid: medians (midpoint to opposite vertices)

Was due Monday November 5th

GQ: How do we use slope in geometry?

CCSS: HSG.CO.D.12 Congruence, Make geometric constructions 3-1 Tuesday Nov 13

Today's class assignments, in order

1. Triangle center project (over due)
2. Write a binder checklist: exams, constructions, projects
3. Deltamath practice: slope, parallels, perpendiculars, $\triangle$ sums

Notebook check

Test corrections due Friday

Homework: Complete deltamath (10pm deadline)

GQ: How do we use isosceles triangles?

CCSS: HSG.CO.C.9 Prove geometric theorems 3-2 Wednesday Nov 14

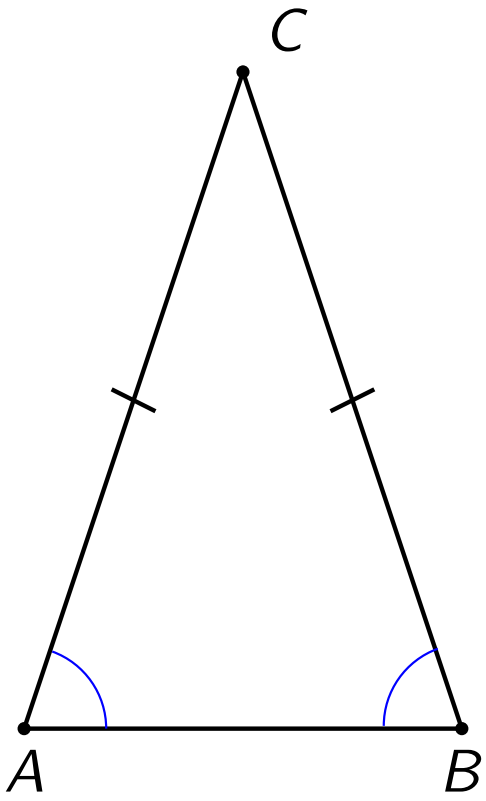
Do Now: Justify the congruence statements

Theorems:
A triangle is isosceles *iff* it has two congruent base angles
Radii of a circle, and congruent circles, are congruent

Homework: Triangle and slope practice, handout

The isosceles base angle theorem.

Given $\triangle ABC$. $\overline{AC} \cong \overline{BC}$ *iff* $\angle A \cong \angle B$.



The two congruent angles are the *base* angles. The third angle is the *vertex* angle.