

CP Geometry -- Test 3 Outline

(The exam is worth 250 points.)

I. Terms / Definitions / Postulates / Theorems (see back of the sheet)

II. Lines cut by a Transversal

- Know the special angle pairs and their properties / theorems (see back of sheet)
- Find missing measures of angles if the lines are parallel
- Using algebraic expressions, find the measures of missing angles
- Determine which lines must be parallel (big systems problems, etc)

III. Interior and Exterior Angles of Polygons

- Know the sum of the measures of interior angles in a triangle (and how to use it)
- Know how to find the measure of an exterior angle in a triangle
- Know how to find the sum of interior and exterior angles in a polygon
- Know how to find the measure of each interior and exterior angle in a regular polygon

IV. Fun Angle Problem

- Using properties of interior and exterior angles...

V. Figures in the Coordinate Plane

(Quadrilateral, Trapezoid, "P-gram", Rhombus, Rectangle, Square, Right Triangles, Equilateral Triangles, Isosceles Triangles)

- Know the properties of each of these
- Be able to calculate the midpoint, slope, or length of a segment given two points
- Be able to analyze a figure in the coordinate plane, state the most specific term for the figure, and prove your result using slope, distance formula, etc.
- Be able to find the missing point of a figure in the coordinate plane (and show enough information to convince me your point is correct)
- **BE ABLE TO WRITE UP YOUR "PROOF" AS WE DID IN CLASS**

VI. Transformations in the Coordinate Plane $T(x,y)$

- Be able to perform a stated transformation on a given figure.
- Be able to write a missing transformation rule for a completed motion.

~~~~~ NOTES ~~~~~

- Calculators, rulers, and highlighters are all allowed on the exam.
- Look over the Quiz #3 key online, and I would suggest printing a blank Quiz #3 to practice!
- Test Date: Tuesday, March 23, 2010

Terms / Definitions / Postulates / Theorems

Items you could have to define on the test are followed by a **

Definitions

Alternate Exterior Angles **

Alternate Interior Angles **

Concave Polygon **

Convex Polygon **

Corresponding Angles **

Equilateral Polygon

Equiangular Polygon

Equilateral Triangle **

Isosceles Triangle **

Parallelogram **

Polygon

Quadrilateral **

Rectangle **

Regular Polygon **

Remote Interior Angles **

Same-Side Interior Angles **

Slope

Square **

Transversal **

Trapezoid **

Triangle

Theorems / Postulates / Major Results

Corresponding Angles Postulate

Alternate Interior Angles Theorem

Alternate Exterior Angles Theorem

Same-Side Interior Angles Theorem

Converse of the Corresponding Angles Postulate

Converse of the Alternate Interior Angles Theorem

Converse of the Alternate Exterior Angles Theorem

Converse of the Same-Side Interior Angles Theorem

Parallel Postulate **

Triangle Interior Angle Theorem

Triangle Exterior Angle Theorem

Sum of Interior Angles in a Polygon

Measure of each Interior Angle in a Regular Polygon

Sum of Exterior Angles in a Polygon

Measure of each Exterior Angle in a Regular Polygon

Slopes of Parallel Lines **

Slopes of Perpendicular Lines **

Special Slopes (Horizontal / Vertical) **

Midpoint Formula

Distance Formula