

CP Geometry – Test: Unit 8 Outline
250 Points
Friday, January 13, 2012

I. Terminology (Consult "Circles - Terminology" sheet for full details)

- Be able to name and identify any of these items.
(Congruent Circles, Concentric Circles, Chord, Diameter, Secant, Tangent, Central Angle, Inscribed Angle, Arc, Major Arc, Minor Arc, Semicircle.)

II. Constructions (See Properties of Chords)

- Be able to construct the center of a circle given an arc or complete circle.
 - Find the perpendicular bisector of two chords
- Be able to find the length of a given arc using these constructions

III. Angles involving Circles

- Be able to work with all of these situations.
- Be able to solve "really involved" angle problems. (The ones with many angles to find.)

IV. Tangent Lines

- Know the two important tangent properties.
- Know how to find the shaded area trapped between a circle and its two tangent lines!!! ***
- Know how to find the length of the belt being wrapped around two gears!!! ***

V. Lines involving Circles

- Be able to find the length of parts of such chords, secants, and tangents
- Be able to use this to find related items (area, circumference, etc)

VI. Law of Sines and Law of Cosines

- Be able to apply these results to solve for missing aspects of a triangle.
- Be able to use these results to solve application problems?

Look over Homework / In Class Problems to be fully prepared for this test!