

CP Geometry: Test #8 (Circles)

Wednesday, June 3, 2009

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

- Be able to name, describe, define, or identify any of those items.
- See reverse of this sheet for full breakdown.

II. Circles in the Coordinate Plane

- Given the center point and radius of a circle, write its equation
- Given the equation of a circle, state its radius and center point

III. 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

IV. Angles involving Circles

- Be able to PROVE these results!
- Be able to work with all of these situations.
- Be able to solve "really involved" angle problems. (The ones where there are numerous measures to find.)
- Be able to find arc length using these results.

V. Tangent Lines

- Know the two important tangent properties.
- You MUST be able to do those two types of problems!

VI. Power of a Point

- 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)

VII. Law of Sines and Law of Cosines??

- Be able to use them
- Be able to use this to solve application problems.

Monday

I. (continued) Terms to know

Congruent Circles
Concentric Circles
Chord
Diameter
Secant
Tangent
Central Angle
Inscribed Angle

Arc
Semicircle
Minor Arc
Major Arc

2 Ways to Measure an Arc

1. Measure of Central Angle
2. Length of the Arc

VIII. Other Notices

- This test will be the last grade of the 4th "4.5 Weeks" grading period.
- Bring a calculator, compass, ruler, and protractor.
- Obviously, you have the entire block. Be ready to begin at the bell.