G-C0 1

October 7, 2012

Standard G-C0 1

1. Know precise definitions of angle, circle, perpendicular line, parallel line, and line segment, based on the undefined notions of point, line, distance along a line, and distance around a circular arc.

In this workshop we take not distance along a line or along a circular arc as basic but: Two segments are congruent or Two arcs are congruent.

1. What are the precise definitions of these terms from the given ones?

   (Hint: Compare Definitions I.15, I.16 for a circle.)

2. Why is distance along a circular arc given as an undefined notion? Can we define the length (congruence) of a circular arc in terms of the length (congruence of line segments).? Remember SSS.