

Directions: See the board for your group number; follow the instructions on your activity sheet corresponding to your group's proposition.

Proposition 1: Between any two points, there exists a unique line segment containing them as endpoints.

Proposition 2: It is possible to extend any finite line segment to a unique *line*.

Proposition 3: Any two right angles are congruent (you can get from one to the other by translations and rotations)

Proposition 4: Given any line and any point not on it, there is a unique line that can be drawn that passes through the point but does not intersect the original line anywhere.

Proposition 5: Given any line segment, there exists a circle with one endpoint as its center and the line segment as a radius.

Proposition 6: Given any line and a point not on it, there exists a unique line passing through the point which intersects the line at a right angle.