

Geometry Essential Standards

G-CO 8

Explain how the criteria for triangle congruence (ASA, SAS, and SSS) follow from the definition of congruence in terms of rigid motions.

G-CO 9

Prove theorems about lines and angles.

G-CO 10

Prove theorems about triangles.

G-SRT 5

Use congruence and similarity criteria for triangles to solve problems and to prove relationships in geometric figures.

G-SRT 8

Use trigonometric ratios and the Pythagorean Theorem to solve right triangles in applied problems.

G-GPE 4

Use coordinates to prove simple geometric theorems algebraically.

G-GPE 7

Use coordinates to compute perimeters of polygons and areas of triangles and rectangles, e.g., using the distance formula.