

- 4-2** If two angles of a triangle are congruent, then the sides opposite those angles are congruent. (p. 136)
- Corollary** An equiangular triangle is also equilateral. (p. 136)
- 4-3 (AAS Theorem)** If two angles and a non-included side of one triangle are congruent to the corresponding parts of another triangle, then the triangles are congruent. (p. 140)
- 4-4 (HL Theorem)** If the hypotenuse and a leg of one right triangle are congruent to the corresponding parts of another right triangle, then the triangles are congruent. (p. 141)
- 4-5** If a point lies on the perpendicular bisector of a segment, then the point is equidistant from the endpoints of the segment. (p. 153)
- 4-6** If a point is equidistant from the endpoints of a segment, then the point lies on the perpendicular bisector of the segment. (p. 153)
- 4-7** If a point lies on the bisector of an angle, then the point is equidistant from the sides of the angle. (p. 154)
- 4-8** If a point is equidistant from the sides of an angle, then the point lies on the bisector of the angle. (p. 154)

Quadrilaterals

- 5-1** Opposite sides of a parallelogram are congruent. (p. 167)
- 5-2** Opposite angles of a parallelogram are congruent. (p. 167)
- 5-3** Diagonals of a parallelogram bisect each other. (p. 167)
- 5-4** If both pairs of opposite sides of a quadrilateral are congruent, then the quadrilateral is a parallelogram. (p. 172)
- 5-5** If one pair of opposite sides of a quadrilateral are both congruent and parallel, then the quadrilateral is a parallelogram. (p. 172)
- 5-6** If both pairs of opposite angles of a quadrilateral are congruent, then the quadrilateral is a parallelogram. (p. 172)
- 5-7** If the diagonals of a quadrilateral bisect each other, then the quadrilateral is a parallelogram. (p. 172)
- 5-8** If two lines are parallel, then all points on one line are equidistant from the other line. (p. 177)
- 5-9** If three parallel lines cut off congruent segments on one transversal, then they cut off congruent segments on every transversal. (p. 177)
- 5-10** A line that contains the midpoint of one side of a triangle and is parallel to another side passes through the midpoint of the third side. (p. 178)
- 5-11** The segment that joins the midpoints of two sides of a triangle
(1) is parallel to the third side.
(2) is half as long as the third side. (p. 178)
- 5-12** The diagonals of a rectangle are congruent. (p. 185)
- 5-13** The diagonals of a rhombus are perpendicular. (p. 185)
- 5-14** Each diagonal of a rhombus bisects two angles of the rhombus. (p. 185)