Geometry Info Sheet #26

Special Quadrilaterals

Definitions

Polygon: A two-dimensional closed plane figure consisting of at least three straight line segments such that each segment intersects exactly two other segments; a polygon has no curves

Simple Quadrilateral:	A four-sided polygon	(not self-intersecting)
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Complex Quadrilateral: A two-dimensional figure with four straight-line sides that is self-intersecting

Parallelogram:	A quadrilateral with two pairs of parallel sides
Rhombus:	A parallelogram with four congruent sides
Rectangle:	A parallelogram with four right angles
Square:	A parallelogram with four congruent sides and four right angles

Trapezoid:A quadrilateral with exactly one pair of parallel sides; note that some definitions
state that a trapezoid has at least one pair of parallel sides; the two parallel sides
are called bases, and the non-parallel opposite sides are the legs (or, if a trapezoid
has two pairs of parallel sides, then there are two sets of bases); the base angles of
a trapezoid are two adjacent angles whose shared side is a base; a typical trapezoid
has two pairs of base angles

Isosceles Trapezoid: A trapezoid with congruent legs (non-parallel opposite sides)

Kite: A quadrilateral with two pairs of congruent adjacent sides and no congruent opposite sides