Parallelogram		Rectangle		Rhombus		Square		Trapezoid	
Sides	Diagonals	Sides	Diagonals	Sides	Diagonals	Sides	Diagonals	Trapezoid	Isosceles Trapezoid
 Both sets of opposite sides are parallel. Slope of all 4 sides. OR Both sets of opposites are congruent. – Distance 	Prove diagonals bisect each other. Must have same midpoint.	1) Slope of all 4 sides. Should find – opposite sides are parallel and adjacent sides are perpendicular.	1) Bisect – same midpoint 2) Congruent – equal distance	1) Distance formula for all 4 sides to prove all are congruent.	1) Bisect each other – same midpoint 2) Perpendicular – negative reciprocal slope	 All sides have same distance – equal in length Slope – 1 set of adjacent sides are perpendicular 	 Bisect – have same midpoint. Slope to show they are perpendicular Distance to prove they are congruent 	1) Slope all 4 sides. 1 set of opposite sides is parallel and the other is not.	 Prove it is a trapezoid Prove 2 non-parallel sides are congruent with distance formula Or Prove diagonals are equal with distance formula.

