

Bisect \rightarrow midpoint

Coordinate Proofs	
Congruent Sides	Same length (Distance Formula) $d =$
Sides are Parallel	Same Slope $m =$
Proving Right Angles Perpendicular	Slopes are opposite Reciprocal In Δ use Pythagorean theorem
Proving Parallelogram	<ul style="list-style-type: none">• Both pairs opposite sides \cong Use distance to find length of all 4 sides• Both Pairs of opposite sides \parallel • Find Slope of all 4 sides• Diagonals Bisect each other • Same midpoint• One pair opposite sides Both \cong and \parallel
Proving Rectangle	<ul style="list-style-type: none">• Diagonals \cong • Find length of Diagonals• 4 Right Angles • Find Slope of All 4 sides
Proving Rhombus	<ul style="list-style-type: none">• Diagonals \perp • Find Slope of Diagonals• 4 congruent sides • Find length of All 4 sides
Proving Square	