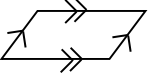
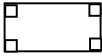

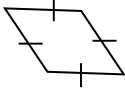
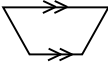

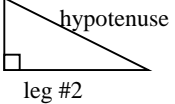
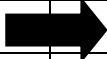
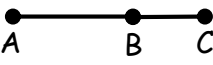
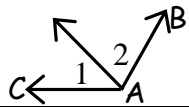
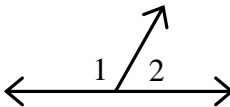
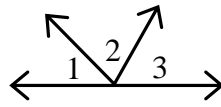
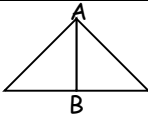
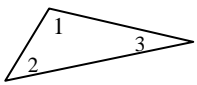
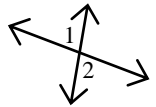
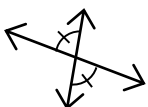
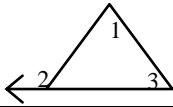
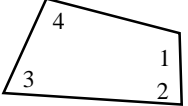
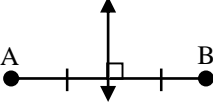
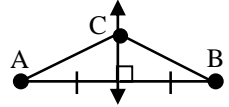


Justifications for Proofs

IF...	THEN	Justification
Parallel (\parallel)	Lines have the same slope	Definition of Parallel
Perpendicular (\perp)	Lines intersect to form a 90° angle	Definition of Perpendicular
Parallelogram	 Quadrilateral w/ BOTH pairs of opposite sides parallel	Definition of Parallelogram
Rectangle	 Quadrilateral w/ four right angles	Definition of Rectangle
Square	 Quadrilateral w/ four right angles AND all sides equal lengths	Definition of Square
Rhombus	 Quadrilateral w/ all sides equal lengths	Definition of Rhombus
Trapezoid	 Quadrilateral w/ only ONE pair of parallel sides	Definition of Trapezoid
Midpoint	Point that splits a segment into 2 \cong segments	Definition of Midpoint
Bisect	Cuts an object (angle or segment) into 2 \cong parts	Definition of Bisect
Isosceles Triangle	 Triangle w/ TWO sides of equal length	Definition of Isosceles
Equilateral	All sides are \cong	Definition of Equilateral
	$(\text{leg}\#1)^2 + (\text{leg}\#2)^2 = (\text{hypotenuse } e)^2$	Pythagorean Thm

IF... 	THEN	Justification
$a = b \ \& \ b = c$	$a = c$	Substitution Property
	$AB + BC = AC$	Segment Addition
	$m\angle 1 + m\angle 2 = m\angle BAC$	Adjacent \angle Addition
$\cong \Delta s$	\cong parts	Corresponding parts of $\cong \Delta s$ are \cong
	$m\angle 1 + m\angle 2 = 180^\circ$	Linear Pair
	$m\angle 1 + m\angle 2 + m\angle 3 = 180^\circ$	Adjacent $\angle s$ that form a straight \angle
	$\overline{AB} \cong \overline{AB}$	Reflexive Property (Also works for a SHARED \angle)
	$m\angle 1 + m\angle 2 + m\angle 3 = 180^\circ$	Δ Sum Thm
	 $m\angle 1 = m\angle 2$	Vertical \angle Thm
	$m\angle 2 = m\angle 1 + m\angle 3$	Exterior \angle Thm
	$m\angle 1 + m\angle 2 + m\angle 3 + m\angle 4 = 360^\circ$	Sum of the $\angle s$ in a quadrilateral is 360°
	 $AC = BC$	Points on the perpendicular bisector of a segment are equidistant to the segment's endpoints