Triangle Congruency Proof Reasons

1)	Given	-	Every proof starts with the original statement.
2)	Definition of Midpoint	-	Midpoints divide a segment into 2 congruent segments
3)	Vertical Angles	-	2 intersecting lines create 2 pairs of congruent angles.
4)	Reflexive Property	-	Every angle or segment is congruent to itself.
5)	Alternate Interior Angles	-	Interior angles on the opposite side of a transversal (parallel lines) are congruent.
6)	Corresponding Angles	-	Angles created by transversal (parallel line) in the exact same position are congruent.
7)	Definition of Perpendicular Lines	-	Perpendicular lines create two right angles.
8)	Definition of Right Triangles	-	A triangle containing a right angle.
9)	Right Angles Congruence	-	Two right angles are congruent to each other.
10)	Third Angles Theorem	-	If you have 2 pairs of congruent angles, then the third angles are also congruent.
11)	Side-Side-Side (SSS)	-	3 sides are congruent to 3 sides.
12)	Side-Angle-Side (SAS)	-	2 sides and an angle in between are congruent to 2 sides and an angle in between.
13)	Hypotenuse-Leg (HL)	-	In 2 right triangles, the hypotenuse and one of the legs are congruent.
14)	Angle-Side-Angle (ASA)	-	2 angles and a side in between are congruent to 2 angles and a side in between.
15)	Angle-Angle-Side (AAS)	-	2 angles and the next side are congruent to 2 angles and the next side.