

Below are the *definitions*, *theorems*, and *postulates* that can be used in proving triangle congruence. CPCTC reminds us that, if two triangles are congruent, then every corresponding part of one triangle is congruent to the other.

Vertical Angles Theorem

If two angles are vertical angles, then they are congruent.

Abbreviation: Vert. \angle s are \cong .

Example: $\angle 1 \cong \angle 3$ and $\angle 2 \cong \angle 4$



Median of a Triangle

A median of a triangle is a segment with endpoints being a vertex of a triangle and the midpoint of the opposite side.



CD is a median of $\triangle ABC$.

Properties of Triangle Congruence

Reflexive Property of Triangle Congruence

$\triangle ABC \cong \triangle ABC$

Symmetric Property of Triangle Congruence

If $\triangle ABC \cong \triangle DEF$, then $\triangle DEF \cong \triangle ABC$

Transitive Property of Triangle Congruence

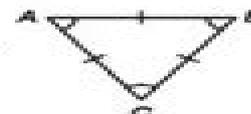
If $\triangle ABC \cong \triangle DEF$ and $\triangle DEF \cong \triangle JKL$, then $\triangle ABC \cong \triangle JKL$.



Equilateral Triangle

A triangle is equilateral if and only if it is equiangular.

Example: If $\angle A \cong \angle B \cong \angle C$, then $AB \cong BC \cong CA$.



Line Segment Bisector

A line, ray or segment which cuts another line segment into two equal parts.

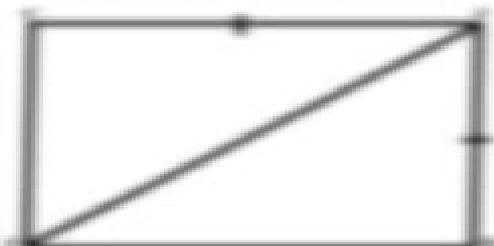
Examples

- Given: $\triangle AMR$ and $\triangle BGT$ are right triangles. $\angle R \cong \angle T$, $\overline{MR} \cong \overline{GT}$
 Prove: $\overline{AR} \cong \overline{BT}$



Statements	Reasons
1. $\triangle AMR$ and $\triangle BGT$ are right triangles.	1. Given
2. $\angle M \cong \angle G$, $\overline{MR} \cong \overline{GT}$	2. Given
3. $\angle A \cong \angle B$ and right angles.	3. Definition of right \angle .
4. $\angle M \cong \angle G$	4. Right angles are congruent.
5. $\triangle AMR \cong \triangle BGT$	5. By AAS Postulate.
6. $\overline{AR} \cong \overline{BT}$	6. CPCTC.

- Given: \overline{PQ} bisects $\angle CPM$, $\overline{PQ} \cong \overline{PQ}$
 Prove: $\angle C \cong \angle M$



Statements	Reasons
1. \overline{PQ} bisects $\angle CPM$	1. Given
2. $\overline{PQ} \cong \overline{PQ}$	2. Given
3. $\angle CPQ \cong \angle MPQ$	3. Definition of bisector.
4. $CP \cong PM$	4. SQ.
5. $\overline{PQ} \cong \overline{PQ}$	5. Segments of equal length are congruent.
6. $\triangle CPQ \cong \triangle MPQ$	6. By SAS Postulate.
7. $\angle C \cong \angle M$	7. CPCTC.

Chapter 3 Proving Statements In Geometry Jmap

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