

CONGRUENT TRIANGLES - Study Guide



If two triangles are congruent, then all of their corresponding sides and all of their corresponding angles are congruent.

Example: A triangle

$\angle A \cong \angle D$	$\angle B \cong \angle E$	$\angle C \cong \angle F$
$AB \cong DE$	$BC \cong EF$	$AC \cong DF$



How to prove two triangles congruent

Side-Side-Side (SSS)

If three sides of one triangle are congruent to three sides of another triangle, then the two triangles are congruent.



Example: A triangle

$AB \cong DE$	$BC \cong EF$	$AC \cong DF$
---------------	---------------	---------------

Therefore, $\triangle ABC \cong \triangle DEF$

Side-Angle-Side (SAS)

If two sides and the included angle of one triangle are congruent to two sides and the included angle of another triangle, then the two triangles are congruent.



Example: A triangle

$AB \cong DE$	$\angle B \cong \angle E$	$BC \cong EF$
---------------	---------------------------	---------------

Therefore, $\triangle ABC \cong \triangle DEF$

Angle-Side-Angle (ASA)

If two angles and the included side of one triangle are congruent to two angles and the included side of another triangle, then the two triangles are congruent.



Example: A triangle

$\angle A \cong \angle D$	$AB \cong DE$	$\angle B \cong \angle E$
---------------------------	---------------	---------------------------

Therefore, $\triangle ABC \cong \triangle DEF$

PROOFS - Study Guide



Prove:

If two triangles are congruent, then all of their corresponding sides and all of their corresponding angles are congruent.

Statement	Reason
1. $\triangle ABC \cong \triangle DEF$	Given
2. $\angle A \cong \angle D$	Corresponding angles of congruent triangles are congruent.
3. $\angle B \cong \angle E$	Corresponding angles of congruent triangles are congruent.
4. $\angle C \cong \angle F$	Corresponding angles of congruent triangles are congruent.
5. $AB \cong DE$	Corresponding sides of congruent triangles are congruent.
6. $BC \cong EF$	Corresponding sides of congruent triangles are congruent.
7. $AC \cong DF$	Corresponding sides of congruent triangles are congruent.

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Given: $\triangle ABC \cong \triangle DEF$

Prove: $\angle A \cong \angle D$



Proof:

1. $\triangle ABC \cong \triangle DEF$ (Given)

2. $\angle A \cong \angle D$ (Corresponding angles of congruent triangles are congruent.)



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PROOF

Given: $\triangle ABC \cong \triangle DEF$

Prove: $\angle A \cong \angle D$

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Emilie Sanchez

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