

CONGRUENT TRIANGLES - Study Guide



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

Example: $\triangle ABC \cong \triangle DEF$
 $\angle A \cong \angle D$
 $\angle B \cong \angle E$
 $\angle C \cong \angle F$
 $AB \cong DE$
 $BC \cong EF$
 $AC \cong DF$



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: $\triangle ABC \cong \triangle DEF$
 $AB \cong DE$
 $BC \cong EF$
 $AC \cong DF$
 $\triangle ABC \cong \triangle DEF$ (SSS)

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: $\triangle ABC \cong \triangle DEF$
 $AB \cong DE$
 $\angle B \cong \angle E$
 $BC \cong EF$
 $\triangle ABC \cong \triangle DEF$ (SAS)

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: $\triangle ABC \cong \triangle DEF$
 $\angle A \cong \angle D$
 $AB \cong DE$
 $\angle B \cong \angle E$
 $\triangle ABC \cong \triangle DEF$ (ASA)

PARALLELS - Study Guide



Definition:

Two lines in a plane that do not intersect are called parallel lines.

Symbol	Meaning
$\parallel$	Parallel
$\perp$	Perpendicular
$\angle$	Angle
$\triangle$	Triangle
$\square$	Square
$\circ$	Circle
$\cdot$	Point
---	Line
---	Ray
---	Segment

Symbol	Meaning
$\parallel$	Parallel
$\perp$	Perpendicular
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Transversal:

A line that intersects two or more other lines.

Corresponding Angles:

Angles in the same relative position.



Example: $\angle 1 \cong \angle 5$
 $\angle 2 \cong \angle 6$
 $\angle 3 \cong \angle 7$
 $\angle 4 \cong \angle 8$



Alternate Angles:

Angles on opposite sides of the transversal.

Example: $\angle 3 \cong \angle 5$
 $\angle 4 \cong \angle 6$



Consecutive Angles:

Angles on the same side of the transversal.

Example: $\angle 3 + \angle 6 = 180^\circ$
 $\angle 4 + \angle 5 = 180^\circ$



PARALLELS - Study Guide

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COORDINATE PLANE - Study Guide



Definition:

A plane with a horizontal x-axis and a vertical y-axis.



Example: $(1, 2)$
 $(-1, -2)$
 $(0, 0)$

Distance:

The length of a line segment.

Example: $AB = 5$

Midpoint:

The point that divides a line segment into two equal parts.

Example: M is the midpoint of AB .

Perpendicular Bisector:

A line that is perpendicular to a line segment and passes through its midpoint.

Example: CD is the perpendicular bisector of AB .

Definition:

A plane with a horizontal x-axis and a vertical y-axis.



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A line that is perpendicular to a line segment and passes through its midpoint.

Example: CD is the perpendicular bisector of AB .

Circle:

A set of points in a plane that are all the same distance from a fixed point called the center.

Example: O is the center of the circle.

Geometry Study Guide And Review

Ying-Ying Zheng



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