

CONGRUENT TRIANGLES - Study Guide



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



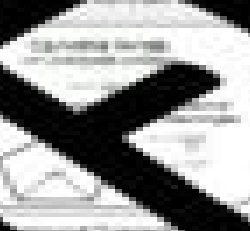
Definition:

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

Symbol	Meaning
\parallel	Parallel
\perp	Perpendicular
\cong	Congruent
\angle	Angle
\triangle	Triangle
\square	Square
\circ	Circle
\cdot	Point
\overline{AB}	Line segment AB
\overleftrightarrow{AB}	Line AB
$\text{ray } AB$	Ray starting at A and passing through B

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\parallel	Parallel
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\overline{AB}	Line segment AB
\overleftrightarrow{AB}	Line AB
$\text{ray } AB$	Ray starting at A and passing through B

Transversal:



Corresponding Angles

Definition:

Two angles in different parallel lines that are in the same relative position are called corresponding angles.

Example:

$\angle 1$ and $\angle 5$ are corresponding angles.

$\angle 2$ and $\angle 6$ are corresponding angles.

$\angle 3$ and $\angle 7$ are corresponding angles.

$\angle 4$ and $\angle 8$ are corresponding angles.

$\angle 1$ and $\angle 8$ are alternate exterior angles.

$\angle 2$ and $\angle 7$ are alternate exterior angles.

$\angle 3$ and $\angle 6$ are alternate exterior angles.

$\angle 4$ and $\angle 5$ are alternate exterior angles.

$\angle 1$ and $\angle 4$ are consecutive interior angles.

$\angle 2$ and $\angle 3$ are consecutive interior angles.

$\angle 3$ and $\angle 4$ are consecutive interior angles.

$\angle 4$ and $\angle 1$ are consecutive interior angles.

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COORDINATE PLANE - Study Guide



Definition:

A coordinate plane is a two-dimensional plane with a horizontal x-axis and a vertical y-axis.



Example:

$(1, 2)$ is a point in the first quadrant.

$(-1, 2)$ is a point in the second quadrant.

$(-1, -2)$ is a point in the third quadrant.

$(1, -2)$ is a point in the fourth quadrant.

$(0, 2)$ is a point on the y-axis.

$(2, 0)$ is a point on the x-axis.

$(0, 0)$ is the origin.

$(1, 1)$ is a point in the first quadrant.

$(-1, 1)$ is a point in the second quadrant.

$(-1, -1)$ is a point in the third quadrant.

$(1, -1)$ is a point in the fourth quadrant.

$(0, 1)$ is a point on the y-axis.

$(1, 0)$ is a point on the x-axis.

$(0, 0)$ is the origin.

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