

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

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Transversal:

A line that intersects two or more other lines.

Corresponding Angles:

Angles in the same relative position.



Alternate Angles:

Angles on opposite sides of the transversal.



Consecutive Angles:

Angles on the same side of the transversal.



Proving Lines Parallel:

PARALLELS - Study Guide



Symbol	Meaning
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$\square$	Square
$\circ$	Circle

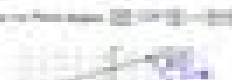
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COORDINATE PLANE - Study Guide



Definition:

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



Origin:

The point where the x and y axes intersect.



Quadrants:

The four regions created by the x and y axes.



Definition:

A line that passes through the origin and has a constant slope.



Slope:

The steepness of a line.



Intercept:

The point where a line crosses the x or y axis.



Equation of a Line:



Geometry Study Guide Review

Carla C. Kirkland, Chan Cleveland

A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the authors' names.

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