

# CONGRUENT TRIANGLES - Study Guide



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

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

How to prove two triangles congruent

Side-Side-Side (SSS)

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



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

Side-Angle-Side (SAS)

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.



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

Angle-Side-Angle (ASA)

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.



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

# PARALLELS - Study Guide



Definition

Two lines that never intersect, no matter how far they are extended, are called parallel lines.

Number of Lines	Type
1	Parallel
2	Parallel
3	Parallel
4	Parallel
5	Parallel
6	Parallel
7	Parallel
8	Parallel
9	Parallel
10	Parallel

Number of Lines	Type
1	Parallel
2	Parallel
3	Parallel
4	Parallel
5	Parallel
6	Parallel
7	Parallel
8	Parallel
9	Parallel
10	Parallel

Transversal

Definition



A line that intersects two or more other lines at different points is called a transversal.



# COORDINATE PLANE - Study Guide



Definition

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



Example

$(1, 2)$  and  $(3, 4)$

How to find the distance between two points on a coordinate plane.

Use the distance formula:  $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$

Example: Find the distance between  $(1, 2)$  and  $(3, 4)$ .

$d = \sqrt{(3 - 1)^2 + (4 - 2)^2}$

$d = \sqrt{2^2 + 2^2}$

$d = \sqrt{4 + 4}$

$d = \sqrt{8}$

$d = 2\sqrt{2}$

The distance between  $(1, 2)$  and  $(3, 4)$  is  $2\sqrt{2}$ .

Definition

A line segment that connects two points on a coordinate plane is called a line segment.



How to find the midpoint of a line segment on a coordinate plane.

Use the midpoint formula:  $M = \left( \frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$

Example: Find the midpoint of the line segment with endpoints  $(1, 2)$  and  $(3, 4)$ .

$M = \left( \frac{1 + 3}{2}, \frac{2 + 4}{2} \right)$

$M = \left( \frac{4}{2}, \frac{6}{2} \right)$

$M = (2, 3)$

The midpoint of the line segment with endpoints  $(1, 2)$  and  $(3, 4)$  is  $(2, 3)$ .

How to find the length of a line segment on a coordinate plane.

Use the distance formula:  $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$

Example: Find the length of the line segment with endpoints  $(1, 2)$  and  $(3, 4)$ .

$d = \sqrt{(3 - 1)^2 + (4 - 2)^2}$

$d = \sqrt{2^2 + 2^2}$

$d = \sqrt{8}$

$d = 2\sqrt{2}$

The length of the line segment with endpoints  $(1, 2)$  and  $(3, 4)$  is  $2\sqrt{2}$ .



Definition

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

Definition

A radius is a line segment that connects the center of a circle to any point on the circle.

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**Lei Shi**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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