

Practice A
8.5 Congruent Triangles

Put in the blanks to complete each definition.

- Two **corresponding** angles and **corresponding** sides are in the same position in polygons with an equal number of sides.
- Two polygons are **congruent** if and only if their corresponding angles and sides are congruent.

Refer to the figure of $\triangle GHI$ and $\triangle JKL$ for Exercises 3 and 4.

- Name the three pairs of corresponding sides.
 $\overline{GH} \cong \overline{JK}$, $\overline{HI} \cong \overline{KL}$, $\overline{GI} \cong \overline{JL}$

- Name the three pairs of corresponding angles.
 $\angle G \cong \angle J$, $\angle H \cong \angle K$, $\angle I \cong \angle L$

Find the value of x .

- Given $\triangle GHI \cong \triangle JKL$, $\angle H = 28^\circ$.
- Given $\triangle ABC \cong \triangle DEF$, $\angle A = 81^\circ$.

- Sketch two $\triangle ABC$. Show the two $\triangle ABC$ lying with the left sides of the indicated angles at A and congruent. Use the previous steps to show how to complete the two congruent parts.

Given: $\angle A$ and $\angle C$ are right angles.

Given: $\angle BVT \cong \angle UVT$, $\overline{BV} \cong \overline{UV}$, $\overline{BT} \cong \overline{UT}$

Prove: $\triangle BTV \cong \triangle UTV$

Statements	Reasons
1. $\angle B$ and $\angle U$ are right angles.	1. Given
2. $\overline{BV} \cong \overline{UV}$	2. Reflex Prop. of \cong
3. $\angle BVT$ and $\angle UVT$ are right angles.	3. \perp
4. $\angle BVT \cong \angle UVT$	4. \cong
5. $\triangle BTV \cong \triangle UTV$	5. SAS
6. $\overline{BT} \cong \overline{UT}$	6. CPCTC

Practice C
8.5 Congruent Triangles

Mr. X is an inventive person. He takes pleasure in drawing a triangle and seeing if another person can recreate his drawing from geometrical information. For each example, draw a diagram to support your answer. (After you begin each exercise by drawing a triangle, measure the parts of your triangle that Mr. X gives you and try to draw a different triangle with those parts. If the two triangles are congruent, you draw Mr. X's triangle.)

- Mr. X gives you the measures of the sides of a triangle. Could you be sure you would draw Mr. X's triangle?
Yes, possible answer.
- Mr. X gives you the measures of the angles of a triangle. Could you be sure you would draw Mr. X's triangle?
No, possible answer.
- Mr. X gives you the measures of one angle and of both sides of that angle. Could you be sure you would draw Mr. X's triangle?
Yes, possible answer.
- Mr. X gives you the measures of one side and both angles that share that side. Could you be sure you would draw Mr. X's triangle?
Yes, possible answer.
- Mr. X gives you the measures of one angle and adjacent sides, and the side opposite the angle. Could you be sure you would draw Mr. X's triangle? (Hint: Start with an angle less than 90° and a long adjacent side.)
No, possible answer.

Practice B
8.5 Congruent Triangles

In Euclid, there plate is a polygon. Polygon $ABCCD$ is a diagram of a regular pentagon. The Euclidean rules are very specific about the exact dimensions of this polygon so that every Euclidean plate is congruent to every other. From a plate, if you know AB is greater than plate, identify each congruent corresponding part.



- $\angle B \cong \angle D$
- $\angle C \cong \angle E$
- $\overline{BC} \cong \overline{DE}$
- $\overline{AB} \cong \overline{CD}$
- $\overline{AC} \cong \overline{BD}$
- $\overline{AD} \cong \overline{BC}$

Given: $\triangle GHI \cong \triangle JKL$. Find each value.

1. $m\angle G = 62^\circ$

2. $\overline{GI} \cong \overline{JK}$

3. Write a two-column proof.

Given: $\angle B \cong \angle G$, $\angle C \cong \angle H$, $\angle D \cong \angle I$, $\overline{BC} \cong \overline{GH}$, $\overline{CD} \cong \overline{HI}$

Prove: $\triangle GHI \cong \triangle JKL$

Prove: Possible answer:

Statements	Reasons
1. $\angle B \cong \angle G$, $\angle C \cong \angle H$, $\angle D \cong \angle I$	1. Given
2. $\overline{BC} \cong \overline{GH}$	2. Third \angle Thm.
3. $\overline{BC} \cong \overline{GH}$, $\overline{CD} \cong \overline{HI}$	3. Given
4. $\overline{BC} \cong \overline{GH}$	4. Given
5. $\overline{BC} \cong \overline{GH}$, $\overline{CD} \cong \overline{HI}$	5. Det. of \cong segs. Reflex Prop. of \cong
6. $\overline{BC} \cong \overline{GH}$, $\overline{CD} \cong \overline{HI}$, $\angle C \cong \angle H$	6. Seg. Add. Post.
7. $\overline{BC} \cong \overline{GH}$, $\overline{CD} \cong \overline{HI}$	7. Subst.
8. $\overline{BC} \cong \overline{GH}$, $\angle C \cong \angle H$	8. Subst. Prop. of \cong
9. $\triangle GHI \cong \triangle JKL$	9. Det. of \cong tri.

16. Given: $\triangle GHI \cong \triangle JKL$, $\overline{GI} \cong \overline{JK}$, $\overline{HI} \cong \overline{KL}$. Find x and $m\angle D$.

$x = \frac{1}{2} \overline{DE} = 13\frac{1}{2}$

17. Given: $\triangle GHI \cong \triangle JKL$, $m\angle G = 62^\circ$, $m\angle H = 72^\circ$, $m\angle I = 66^\circ$. Find y and $m\angle D$.

$y = 26$; $m\angle D = 121^\circ$

Reteach
8.5 Congruent Triangles

Triangles are congruent if they have the same size and shape. Their corresponding parts, the angles and sides that are in the same position, are congruent.



Corresponding Parts	
Congruent Angles	Congruent Sides
$\angle A \cong \angle D$	$\overline{AB} \cong \overline{DE}$
$\angle B \cong \angle E$	$\overline{BC} \cong \overline{EF}$
$\angle C \cong \angle F$	$\overline{CA} \cong \overline{FD}$

To identify corresponding parts of congruent triangles, look at the order of the vertices in the congruence statement such as $\triangle ABC \cong \triangle DEF$.

Given: $\triangle GHI \cong \triangle JKL$. Identify the congruent corresponding parts.

- $\angle G \cong \angle J$
- $\angle H \cong \angle K$
- $\angle I \cong \angle L$
- $\overline{GH} \cong \overline{JK}$
- $\overline{HI} \cong \overline{KL}$
- $\overline{GI} \cong \overline{JL}$

Given: $\triangle GHI \cong \triangle JKL$. Find each value below.

- $x = 21$
- $m\angle F = 62^\circ$
- $\overline{GI} \cong \overline{JK}$
- $\overline{HI} \cong \overline{KL}$

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G Psacharopoulos



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