

# GEOMETRY

## Unit 4

### CLASSIFYING TRIANGLES (by Angles)

#### Notes/Examples

3 Acute Angles



Classify each triangle by its angles.

1.  $\triangle ABC$

2.  $\triangle DEF$

3.  $\triangle GHI$

### TRIANGLE ANGLE SUM *Theorem*

The sum of the measures of the interior angles of a triangle is 180°.



An exterior angle is formed by one side of a triangle and the extension of another side.

### ISOSCELES Triangles



- The two congruent sides are called the legs.
- The angle where the legs meet is called the vertex angle.
- The sides opposite the vertex angle are called the base.
- The angles along the base are called the base angles.

If two sides of a triangle are congruent, then the angles opposite those sides are congruent.

### CONGRUENT TRIANGLE

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

SSS (side-side-side) CONGRUENCE

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



Given:  $\overline{PQ} \cong \overline{ST}$ ,  $\overline{QR} \cong \overline{TS}$ ,  $R$  is the midpoint of  $\overline{PT}$ .  
Prove:  $\triangle PQR \cong \triangle TSR$ .

- $\overline{PQ} \cong \overline{ST}$
- $\overline{QR} \cong \overline{TS}$
- $R$  is the midpoint of  $\overline{PT}$
- $\overline{PR} \cong \overline{TR}$

### CONGRUENT TRIANGLE

ASA (angle-side-angle) CONGRUENCE THEOREM

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.



"INCLUDED" MEANS THE SIDE BETWEEN THE TWO ANGLES.

Given:  $\angle P \cong \angle S$ ,  $\overline{PR} \cong \overline{SR}$ ,  $\angle R \cong \angle T$ .  
Prove:  $\triangle PQR \cong \triangle STR$ .

### CONGRUENT TRIANGLE

CPCTC

What is CPCTC?

CPCTC stands for Corresponding Parts of Congruent Triangles are Congruent.

Use CPCTC when asked to prove two segments or angles are congruent.

"What MUST you first prove?"

Given:  $\angle A \cong \angle D$ ,  $\angle B \cong \angle E$ ,  $\overline{AC} \cong \overline{DF}$ .  
Prove:  $\triangle ABC \cong \triangle DEF$ .



# CONGRUENT TRIANGLES

## NOTES • HOMEWORK • QUIZZES • TEST

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# Geometry Unit 8 Lesson Answer Review

**Raffaela Di Napoli**



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