

# 4 3 practice congruent triangles answers form

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### 4-3 Practice: Congruent Triangles

#### Questions:

1. State the definition of congruent triangles.
2. Identify the congruent parts of two triangles with the following markings:  $\triangle ABC$   
 $\triangle DEF$
3. Determine whether the following triangles are congruent:  $\triangle XYZ$  with  $\triangle MNO$
4. Given  $\triangle RST \cong \triangle UVW$ , find the value of  $x$  if  $ST = UW$  and  $RS = 10$ .
5. Prove that two triangles with two pairs of congruent sides and a congruent included angle are congruent.

#### Answers:

1. **Definition of congruent triangles:** Two triangles are congruent if they have the same size and shape, meaning they can be superimposed on each other exactly.
2. **Congruent parts of  $\triangle ABC \cong \triangle DEF$ :**
  - $AB \cong DE$
  - $BC \cong EF$
  - $AC \cong DF$

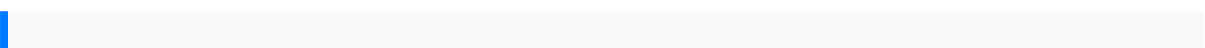
- $\angle A \cong \angle D$
- $\angle B \cong \angle E$
- $\angle C \cong \angle F$

3. **Congruence of  $\triangle XYZ$  and  $\triangle MNO$ :** There is not enough information provided to determine if the triangles are congruent. The congruence of triangles requires the equivalence of specific pairs of sides and angles, which is not given in this question.

4. **Value of  $x$ :** Since  $\triangle RST \cong \triangle UVW$  and  $ST = UW$ , the corresponding parts are congruent. Therefore,  $x = 10$ .

5. **Proof of congruence with two pairs of congruent sides and an included angle:**

- Let  $\triangle ABC$  and  $\triangle DEF$  have two pairs of congruent sides,  $AB \cong DE$  and  $AC \cong DF$ , and a congruent included angle,  $\angle B \cong \angle E$ .
- By the Side-Side-Angle (SSA) Congruence Theorem,  $\triangle ABC \cong \triangle DEF$ .
- Hence, the two triangles are congruent because they have two pairs of congruent sides and a congruent included angle.



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