

4 3 practice congruent triangles answers

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4-3 Practice: Congruent Triangles

Paragraph 1:

Question: Which of the following pairs of triangles are congruent?

Answer: A: $\triangle ABC$ and $\triangle DEF$ (AAA)

Paragraph 2:

Question: Prove the two triangles are congruent by the Side-Angle-Side (SAS) Congruence Theorem.

Diagram: [Image of two triangles with side lengths and angle measurements labeled]

Answer:

- SAS \triangle Theorem: If two sides and the included angle of one triangle are congruent to two sides and the included angle of another triangle, then the triangles are congruent.
- $\triangle ABC \cong \triangle XYZ$ (SAS \triangle Theorem)

Paragraph 3:

Question: Identify the congruent parts between the following congruent triangles:

Diagram: [Image of two congruent triangles labeled with different variables]

Answer:

- $\triangle RST \cong \triangle XYZ$
- $RS \cong XY$
- $ST \cong YZ$
- $RT \cong XZ$

Paragraph 4:

Question: If triangle $\triangle ABC$ is congruent to triangle $\triangle DEF$, state the relationship between the following parts:

- $\angle A$ and $\angle D$
- AB and DF
- AC and DE

Answer:

- $\angle A \cong \angle D$
- $AB \cong DF$
- $AC \cong DE$

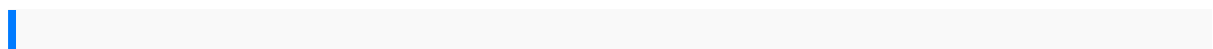
Paragraph 5:

Question: Given the following two triangles, use the Side-Side-Side (SSS) Congruence Theorem to determine if they are congruent:

Diagram: [Image of two triangles with side lengths labeled]

Answer:

- SSS \cong Theorem: If the three sides of one triangle are congruent to the three sides of another triangle, then the triangles are congruent.
- $\triangle PQR \cong \triangle LMN$ (SSS \cong Theorem)



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