

2021 Must Know Geometry Proving Congruent Triangles by SSS, SAS and ASA (Geometry 5.3,

Lesson 075 | Geometry | SSS, SAS, and ASA congruence

<https://www.youtube.com/watch?v=QsGklkTTxYU>

Original practice aligned to the saved video title.

Name: _____ Date: _____ Show your reasoning.

01

Two triangles have corresponding sides 20, 21, 22. Name the congruence criterion and explain what CPCTC then establishes.

02

Two triangles have corresponding sides 5, 7 with included angles 50° . Name the congruence criterion and explain what CPCTC then establishes.

03

Two triangles have corresponding angles 45° and 50° with equal included sides 2. Name the congruence criterion and explain what CPCTC then establishes.

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04

Two triangles have corresponding sides 13, 14, 15. Name the congruence criterion and explain what CPCTC then establishes.

05

Two triangles have corresponding sides 2, 11 with included angles 45° . Name the congruence criterion and explain what CPCTC then establishes.

06

Two triangles have corresponding angles 60° and 65° with equal included sides 5. Name the congruence criterion and explain what CPCTC then establishes.

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01

Two triangles have corresponding sides 20, 21, 22. Name the congruence criterion and explain what CPCTC then establishes.

Criterion: SSS. It guarantees congruent triangles; CPCTC then gives equality of all remaining corresponding sides and angles, with vertex order matched.

02

Two triangles have corresponding sides 5, 7 with included angles 50° . Name the congruence criterion and explain what CPCTC then establishes.

Criterion: SAS. It guarantees congruent triangles; CPCTC then gives equality of all remaining corresponding sides and angles, with vertex order matched.

03

Two triangles have corresponding angles 45° and 50° with equal included sides 2. Name the congruence criterion and explain what CPCTC then establishes.

Criterion: ASA. It guarantees congruent triangles; CPCTC then gives equality of all remaining corresponding sides and angles, with vertex order matched.

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04

Two triangles have corresponding sides 13, 14, 15. Name the congruence criterion and explain what CPCTC then establishes.

Criterion: SSS. It guarantees congruent triangles; CPCTC then gives equality of all remaining corresponding sides and angles, with vertex order matched.

05

Two triangles have corresponding sides 2, 11 with included angles 45° . Name the congruence criterion and explain what CPCTC then establishes.

Criterion: SAS. It guarantees congruent triangles; CPCTC then gives equality of all remaining corresponding sides and angles, with vertex order matched.

06

Two triangles have corresponding angles 60° and 65° with equal included sides 5. Name the congruence criterion and explain what CPCTC then establishes.

Criterion: ASA. It guarantees congruent triangles; CPCTC then gives equality of all remaining corresponding sides and angles, with vertex order matched.