Shape & Space

GCSE Maths Tutor

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Definition of congruency

A triangle (or indeed any two dimensional shape) is deemed congruent to another if it has the same shape and the same size.

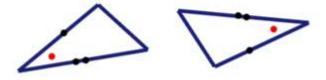
The second triangle can be <u>rotated</u>, <u>reflected</u> or <u>translated</u> in any way.

The first triangle must be able to fit over the second triangle exactly.

Tests for congruency - Side Angle Side (SAS)

two sides + the included angle

are common to both



Tests for congruency - Side Side (SSS)

all three sides are common to both triangles

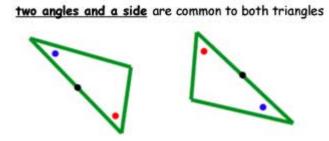


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Tests for congruency - Angle Side Angle (ASA)



Tests for congruency - Right angle Hypotenuse and one Side (RHS)

right-angle and the hypotenuse + one other side

