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Congruent Figures and Triangles in Geometry**

Definition of Congruent Figures

Congruent figures are geometric shapes that have exactly the same size and shape. They are identical images of each other.

Congruent Triangles

In Geometry Chapter 4 Section 1, congruent triangles are defined as triangles that have the same three side lengths and the same three angle measures.

Theorem 4.1 in Geometry

Theorem 4.1 states that if two triangles have three congruent pairs of sides, then the triangles are congruent (SSS).

Rules for Congruent Triangles

There are four rules for congruent triangles:

- **SSS** (**Side-Side-Side**): If two triangles have three congruent pairs of sides, then they are congruent.
- SAS (Side-Angle-Side): If two triangles have two congruent pairs of sides and one congruent pair of included angles, then they are congruent.
- ASA (Angle-Side-Angle): If two triangles have two congruent pairs of angles and one congruent pair of included sides, then they are congruent.

• AAS (Angle-Angle-Side): If two triangles have two congruent pairs of angles and one congruent non-included side, then they are congruent.

Congruent Figure Examples

Examples of congruent figures include:

- Two identical circles
- Two squares with the same side length
- Two equilateral triangles

Identifying Congruent Figures

To identify congruent figures, compare their sides and angles. If both sets of corresponding sides and angles are congruent, then the figures are congruent.

Drawing Congruent Figures

To draw congruent figures, follow these steps:

- Measure and mark off the lengths of the corresponding sides.
- Use a protractor to measure and mark off the measures of the corresponding angles.
- Connect the corresponding points to form the congruent figure.

Angle-Related Theorems

- 90 Degree Rule: Two angles are congruent if their measures sum to 90 degrees.
- Congruent Segments Theorem: If two segments are congruent to a third segment, then they are congruent to each other.

Similar Shapes

Similar shapes have the same shape but not necessarily the same size. Their corresponding angles are congruent, but their corresponding sides are proportional.

Congruence Modulo 4

"Congruent to 1 mod 4" means that a number leaves a remainder of 1 when divided by 4. Primes congruent to 1 modulo 4 are p = 5, 13, 17, ...

Congruent Numbers

Congruent numbers are pairs of integers that have the same remainder when divided by a certain number. For example, 4 and 9 are congruent to 1 mod 5 because both leave a remainder of 1 when divided by 5.

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