

## Chapter 4: Congruent Triangles

### Objectives:

- Identify the corresponding parts of congruent figures.
- Prove 2 triangles congruent by using, SSS Postulate, SAS Postulate, and ASA Postulate.
- Deduce information about segments and angles after proving that 2 triangles are congruent.

### 4.1 Congruent Figures

- whenever 2 figures have the same size and shape, they are called congruent.
- You are told that  $\triangle ABC \cong \triangle DEF$  so the following occurs:

Corresponding angles:

$A \leftrightarrow D$

$B \leftrightarrow E$

$C \leftrightarrow F$

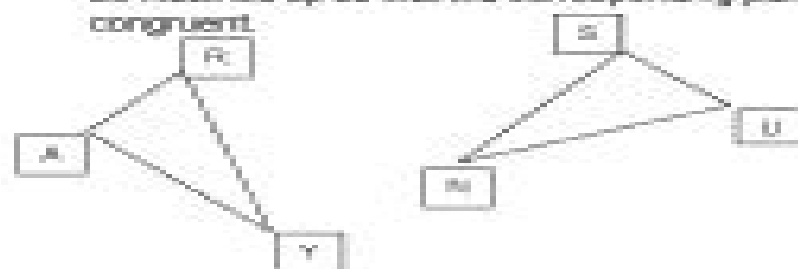
Corresponding sides:

$AB \leftrightarrow DE$

$BC \leftrightarrow EF$

$AC \leftrightarrow DF$

Congruent triangles are defined as: 2 triangles are congruent if and only if their vertices can be matched up so that the corresponding parts (angles and sides) of the triangle are congruent.



When referring to congruent triangles, we name their corresponding vertices in the same order.

The following statements about these triangles are also correct, since corresponding vertices of the triangles are named in the same order.

Suppose you are given that  $\triangle XYZ \cong \triangle ABC$ . From the definition of congruent triangles you know, for example, that  $XY \cong AB$  and  $\angle X \cong \angle A$ . When the definition of congruent triangles is used to justify either of these statements, the wording commonly used is, "corresponding parts of congruent triangles are congruent" often written CPCTC.

# Chapter 4 Congruent Triangles Osceola High School

**Padhraic Smyth**



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## **Table of Contents Chapter 4 Congruent Triangles Osceola High School**

1. Understanding the eBook Chapter 4 Congruent Triangles Osceola High School
  - The Rise of Digital Reading Chapter 4 Congruent Triangles Osceola High School
  - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 4 Congruent Triangles Osceola High School
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Chapter 4 Congruent Triangles Osceola High School
  - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 4 Congruent Triangles Osceola High School
  - Personalized Recommendations
  - Chapter 4 Congruent Triangles Osceola High School User Reviews and Ratings
  - Chapter 4 Congruent Triangles Osceola High School and Bestseller Lists
5. Accessing Chapter 4 Congruent Triangles Osceola High School Free and Paid eBooks
  - Chapter 4 Congruent Triangles Osceola High School Public Domain eBooks
  - Chapter 4 Congruent Triangles Osceola High School eBook Subscription Services

- Chapter 4 Congruent Triangles Osceola High School Budget-Friendly Options
- 6. Navigating Chapter 4 Congruent Triangles Osceola High School eBook Formats
  - ePub, PDF, MOBI, and More
  - Chapter 4 Congruent Triangles Osceola High School Compatibility with Devices
  - Chapter 4 Congruent Triangles Osceola High School Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Chapter 4 Congruent Triangles Osceola High School
  - Highlighting and Note-Taking Chapter 4 Congruent Triangles Osceola High School
  - Interactive Elements Chapter 4 Congruent Triangles Osceola High School
- 8. Staying Engaged with Chapter 4 Congruent Triangles Osceola High School
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Chapter 4 Congruent Triangles Osceola High School
- 9. Balancing eBooks and Physical Books Chapter 4 Congruent Triangles Osceola High School
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Chapter 4 Congruent Triangles Osceola High School
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Chapter 4 Congruent Triangles Osceola High School
  - Setting Reading Goals Chapter 4 Congruent Triangles Osceola High School
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chapter 4 Congruent Triangles Osceola High School
  - Fact-Checking eBook Content of Chapter 4 Congruent Triangles Osceola High School
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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