

# Similar Triangles

~~14, 19~~, 14, ~~19~~, 19

(14)

$$\frac{11}{5.5} = \frac{2}{1}$$

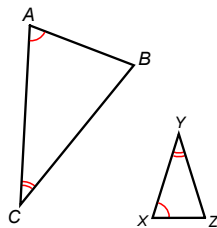
$$\frac{23}{46} = \frac{1}{2}$$

title

Jan 8-8:53 AM

## Angle-Angle (AA) Similarity Postulate

If two angles of one triangle are congruent to two angles of another triangle, then the two triangles are similar.

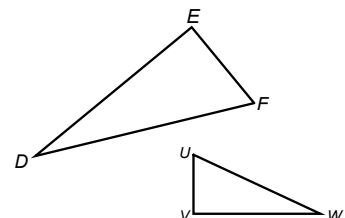


AA

## Side-Side-Side (SSS) Similarity Theorem

If the corresponding sides lengths of two triangles are proportional, then the triangles are similar.

SSS ~ Thm



SSS

**Side-Angle-Side (SAS) Similarity Theorem**

If an angle of one triangle is congruent to an angle of a second triangle and the lengths of the sides including these angles are proportional, then the triangles are similar.

SAS

Are the triangles similar? If so, write a similarity statement and state the postulate or theorem that justifies your answer. If not, explain why.

examples

Are the triangles similar? If so, write a similarity statement and state the postulate or theorem that justifies your answer. If not, explain why.

examples

**Conclusion**

1. What does AA Similarity mean?
2. What must be true for the figures to be similar? AA~ SAS~ SSS~
3. What are some theorems that show similarity?
4. Questions??

**Assignment**  
**Similar Triangles**  
**Wkst**

Dec 10-3:13 PM