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## **7-3 Triangle Similarity: AA, SSS, and SAS // GEOMETRY ...**

7.3 Triangle Similarity: AA, ASA, SSS  
Objectives: G.SRT.5: Use congruence and similarity criteria for triangles to solve problems and prove relationships in geometric figures. G.SRT.3: Use the properties of similarity transformations to establish the AA criterion for two triangles to be similar. G.SRT.2: Given two figures, use the definition of similarity in terms of similarity

## **7.3 Showing Triangles are Similar: AA**

7.3 Showing Triangles are Similar: AA  
373 Use the AA Similarity Postulate Determine whether the triangles are similar. If they are similar, write a

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similarity statement. Explain your reasoning. Solution If two pairs of angles are congruent, then the triangles are similar.  $\angle A \cong \angle C$  because they are both marked as right angles.

### Practice B Triangle Similarity: AA, SSS, SAS

Example: these two triangles are similar: If two of their angles are equal, then the third angle must also be equal, because angles of a triangle always add to make  $180^\circ$ . In this case the missing angle is  $180^\circ - (72^\circ + 35^\circ) = 73^\circ$

### 7 3 Showing Triangles Are Similar Aa

7. AA Similarity  $\triangle UPS \sim \triangle QSR$  8. Transitive Property 9. a.  $\triangle UACD \sim \triangle UABC$ ;  $\triangle UCBD \sim \triangle UABC$ ;  $\triangle UACD \sim \triangle UCBD$  b.  $\frac{ac}{bc} = \frac{a}{c}$  c. Proofs will vary. Problem Solving 1.  $\triangle CBD \cong \triangle CAE$  by Corr. s Thm. and  $\angle C \cong \angle C$  by the Reflex. Prop. of  $\cong$ . So  $\triangle UCBD \sim \triangle UCAE$  by AA a. 2. 46.7 in. 3. No;  $\frac{WX}{XY} \neq \frac{XZ}{YZ}$  4. 15;  $\triangle UMNP \sim \triangle URQP$  by SAS a. Corr. sides of  $\triangle s$  are proportional. 5. B 6

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## **7.3 Similar Triangles NOTES - WordPress.com**

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## **7.3 Showing Triangles are Similar: AA**

Chapter 7 : Similarity 7.3 Showing Triangles are Similar: AA. Click below for lesson resources. To view a PDF file, you must have the Adobe® Acrobat® Reader installed on your computer.

## **Chapter 7: Similarity - Mr. Wertz's Math Class**

Triangle Similarity 7.2 Side-Side-Side

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(SS) Similarity If the corresponding side lengths of two triangles are proportional, then the triangles are similar. Example If  $\triangle MPQ \sim \triangle AJKL$  — then  $\frac{MP}{AJ} = \frac{MQ}{JK} = \frac{PQ}{KL}$ . 7.3 Side-Angle-Side (SAS) Similarity If the lengths of two sides of one triangle are proportional to the lengths of two

## **LESSON Problem Solving 8-3 Triangle Similarity: AA, SSS ...**

Similar Triangles Identify Similar Triangles Here are three ways to show that two triangles are similar. AA Similarity Two angles of one triangle are congruent to two angles of another triangle. SSS Similarity The measures of the corresponding side lengths of two triangles are proportional. SAS Similarity

## **Chapter 7 : Similarity : 7.3 Showing Triangles are Similar: AA**

Triangle Similarity: AA, SSS, SAS For Exercises 1 and 2, explain why the triangles are similar and write a similarity statement. 1. ... LESSON 7-3

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Practice A 1. proportional 2. similar 3. congruent 4. ...

## **Proofs : AA similarity**

Start studying Section 7-3: Triangle Similarity (SSS,AA,SAS). Learn vocabulary, terms, and more with flashcards, games, and other study tools.

## **Section 7-3: Triangle Similarity (SSS,AA,SAS) Flashcards ...**

Triangle Congruence Theorems, Two Column Proofs, SSS, SAS, ASA, AAS Postulates, Geometry Problems - Duration: 50:27. The Organic Chemistry Tutor 246,889 views

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## **7 3 Showing Triangles Are Similar**

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## **Aa**

7-3 Triangle Similarity: AA, SSS, SAS Use the figure for Exercises 1-3. 1. Prove similarity relationships between triangles in the figure. Give a similarity ratio for each relationship you find. Possible answer:  $\triangle ABC$  and  $\triangle ADB$  share  $\angle A$ . They also each have a right angle, so  $\triangle ABC \sim \triangle ADB$  by AA. They have a similarity ratio of  $\frac{2}{1}$ .

## **How To Find if Triangles are Similar**

7-19 Holt Geometry Practice A Triangle Similarity: AA, SSS, SAS Fill in the blanks to complete each postulate or theorem.

1. If the three sides of one triangle are \_\_\_\_\_ to the three sides of another triangle, then the triangles are similar.
2. If two sides of one triangle are proportional to two sides of another triangle and their

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## **7.3 Triangle Similarity: AA, ASA, SSS**

7.3 Showing Triangles are Similar: AA  
373 Use the AA Similarity Postulate  
Determine whether the triangles are similar. If they are similar, write a similarity statement. Explain your reasoning. Solution If two pairs of angles are congruent, then the triangles are similar. 1 aG caL because they are both marked as right angles.

## **7.3 - Triangle Similarity: AA, SSS, and SAS Flashcards ...**

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## **Geometry: Section 7.3- Triangle Similarity (AA, SAS, SSS)**

7.3: Showing Triangles are Similar: AA-----SHORT CHAPTER 7 QUIZ (7.1-7.3) ON FRIDAY, 02/17/17-----7.4: Showing Triangles are Similar: SSS and SAS. 7.5: Proportions and Similar Triangles. 7.6: Dilations-----CHAPTER 7 TEST ON FRIDAY, 03/03/17 ...

## **7-3 Triangle Similarity: AA, SSS, SAS**

AA similarity : If two angles of one triangle are respectively equal to two angles of another triangle, then the two triangles are similar. Paragraph proof : Let  $\triangle ABC$  and  $\triangle DEF$  be two triangles such that  $\angle A = \angle D$  and  $\angle B = \angle E$ .  $\angle A + \angle B + \angle C = 180^\circ$  (Sum of all angles in a  $\triangle$  is 180)  $\angle D + \angle E + \angle F = 180^\circ$  (Sum of all angles in a ...