

# Similar Triangles Study Guide

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## Similar Triangles Study Guide

### NAME DATE PERIOD 7-3 Study Guide and Intervention

Study Guide and Intervention 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

### Notes: SIMILAR TRIANGLES - Introduction

Notes: SIMILAR TRIANGLES Geometry Unit 5 - Similarity Page 318 SAS Inequality Theorem (The Hinge Theorem): If two sides of one triangle are congruent to two sides of another triangle, but the included angle of the first triangle larger than the included angle of the second triangle, then the third side of the first triangle is longer than the

### Skills Practice

Study Guide and Intervention Similar Triangles NAME \_\_\_\_ DATE \_\_\_\_ PERIOD \_\_\_\_ 7-3 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

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### Similarity Study Guide Answers

relationship, the triangles are similar  $51^\circ 77^\circ 51^\circ 77^\circ 66 132 52^\circ$  G8M3 Study Guide Similarity and Dilations Geometry SOL G6, G7 STUDY GUIDE Congruent, Similar Triangles Page 8 Study Guide Answers 1) a) no, AAA insufficient for congruence b) yes, SAS c) yes, AAS d) yes, SAS e) no, SSA

**NAME DATE PERIOD 7-5 Study Guide and Intervention**

7-5 Study Guide and Intervention Parts of Similar Triangles Special Segments of Similar Triangles When two triangles are similar, corresponding altitudes, angle bisectors, and medians are proportional to the corresponding sides Exercises Find  $x$  1  $x$  36 18 20 2 6 9 12  $x$  3 3 3 4  $x$  4 10 10  $x$  8 7 8 5 45 42  $x$  30 6 14 12 12  $x$

**7.4 Showing Triangles are Similar: SSS and SAS**

Feb 29, 2012 · The triangles in the Navajo rug look similar To show that they are similar, you can use the definition of similar polygons or the AA Similarity Postulate In this lesson, you will learn two new methods to show that two triangles are similar 74 Showing Triangles are Similar: SSS and SAS Determine whether the triangles are similar If they are

**Ms. Johnson's Classroom Site - Home**

7-3 Study Guide (continued) Similar Triangles Use Similar Triangles Similar triangles can be used to find measurements Example 1 : AABC ADEF Find the values of  $x$  and  $y$  Example 2 : A person 6 feet tall casts a 15-foot-long shadow at the same time that a flagpole casts a 7-foot-long shadow How tall is the flagpole? 18 BC 18 Exercises 18

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Study Guide and Intervention (continued) Similar Triangles Use Similar Triangles Similar triangles can be used to find measurements Example 1 : AABC ADEF Find the values of  $x$  and  $y$  A person 6 feet tall casts a 15-foot-long shadow at the same time that a flagpole casts a 7-foot-long shadow How tall is the flagpole? 15ft The Sun's rays

**Chapt 6 Notes 2011-2012x**

8 \_\_\_\_ (6-5) Parts of Similar Triangles - Day 2 - 6-5 Practice Worksheet or Page 319 #1 - 7, 9 9 \_\_\_\_ Unit 6 Review Worksheet 3 4 Date: \_\_\_\_ Section 6 - 1: Proportions Notes Write Ratios: Ratio: Ways to express the ratio  $a$  to  $b$ : Example #1: The total number of ...

**Vocabulary - Ms. Perry's Math Class**

Study Guide For use with the lesson "Use Similar Right Triangles" Use properties of the altitude of a right triangle Vocabulary Theorem 5: If the altitude is drawn to the hypotenuse of a right triangle, then the two triangles formed are similar to the original triangle and to each other Theorem 6 Geometric Mean (Altitude) Theorem: In a right

**Triangle Proportionality Theorem Transversal similarity ...**

Geometry SOL G6, G7 STUDY GUIDE Congruent, Similar Triangles Page 2 o The endpoints of an altitude are a vertex of a triangle and a point on the vertex's opposite side that makes the altitude and side perpendicular DON'T LIMIT TEST PREPARATION TO THIS STUDY GUIDE! Look over notes,

**20 Best Book Indirect Measurement Geometry Study Guide ...**

Indirect Measurement Using Similar Triangles Examples study guide and intervention linear measure and precision name date period 1 2 measure line segments a part of a line between two endpoints is called a line segment the lengths of  $mn$  and  $rs$  are written as

**Study guide 6 - Ms. Perry's Math Class - Home**

Determine whether the triangles are similar If they are, write a similarity statement 1 C D F G E 2 P R N M L  $71^\circ$   $19^\circ$  3 J  $72^\circ$   $28^\circ$   $28^\circ$   $82^\circ$  R S T H K 4 X Y Z P Study guide continued For use with the lesson "Prove Triangles Similar by AA" Lesson 63 Geometry Chapter Resource Book 6-37 Lesson 63

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develops the arithmetic theory of proportion book 6 applies the theory of proportion to plane geometry and contains theorems on similar Triangles  
Geometry Study Guide Downloads Book 3

**Geometry Study Guide Chapter 7 Similarity**

Geometry Study Guide Chapter 7 Similarity 7-1 Ratios and Proportions 1 What is a ratio? 7-2 Similar Polygons 1 What does similar mean? Compare and contrast Similar with Congruent What is true about the 2 triangles which get created when you draw an altitude to the hypotenuse? 6 Do you understand Problem 1, 2, 3? 7 Do you understand