6.5 Prove Triangles Similar by SSS and SAS

**SSS Similarity**

If the _______ of the corresponding ______ of two triangles are _________, then the triangles are ________.

**SAS Similarity**

If the _______ of two ______ of a triangle are _________ to the measures of two corresponding ______ of another triangle and the _______ angles are __________, then the triangles are ________.

Which of the three triangles are similar?

The shortest side of a triangle similar to \( \triangle RST \) is 12 units long. Find the other side lengths of the triangle.

**Explain how to show that the indicated triangles are similar.**

\( \triangle SRT \sim \triangle PQN \)

\( \triangle XZW \sim \triangle YZX \)

Assignment: 391 #4-24 even, 25, 26, 30, 32, 36, 38, 41-44 all = 21

Extra Credit: 395 #2, 6 = +2

Created by Richard Wright – Andrews Academy

To be used with Larson Geometry, 2011