

Lesson 3.2.4
More Conditions for Triangle Similarity

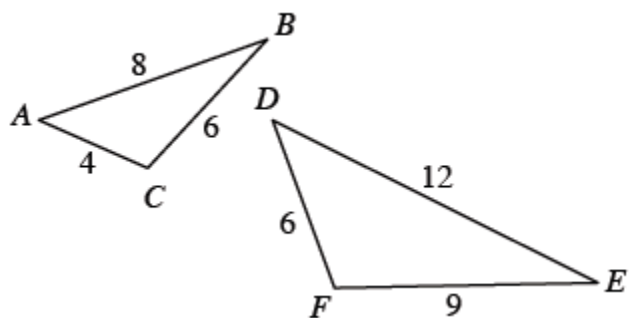
We have another short cut to prove if two triangles are similar. It's called Side-Side-Side Postulate or SSS.

SSS ~ (Triangle Similarity) pg. 862

To use this triangle similarity postulate you must set up a side ratio for all three sides and reduce. If all the side ratios reduce to the same thing, then the triangles are similar. If they do not reduce to the same thing, then the triangles are not similar.

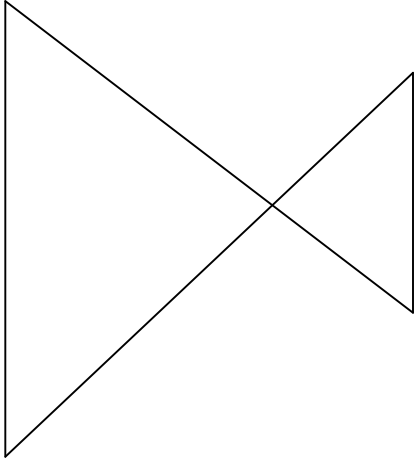
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Kendall now wants to figure out if three pairs of corresponding proportional side lengths (SSS ~) can be used to determine if triangles are similar. She decides to test triangles with side lengths 4, 6, and 8 units and 6, 9, and 12 units shown below.



Are the triangles similar? Organize your proof in a flow chart.

Are these triangles similar? Justify your answer.



List all of the postulates we have to prove that two triangles are similar.