Lesson 10: Informal Proof of AA Criterion for Similarity

Classwork

Exercises 1–5

1. Use a protractor to draw a pair of triangles with two pairs of interior angles that are equal in measure. Then, measure the lengths of the sides, and verify that the lengths of their corresponding sides are equal in ratio.

2. Draw a new pair of triangles with two pairs of interior angles that are equal in measure. Then, measure the lengths of the sides, and verify that the lengths of their corresponding sides are equal in ratio.
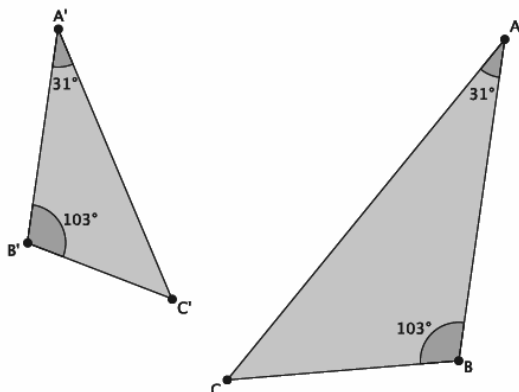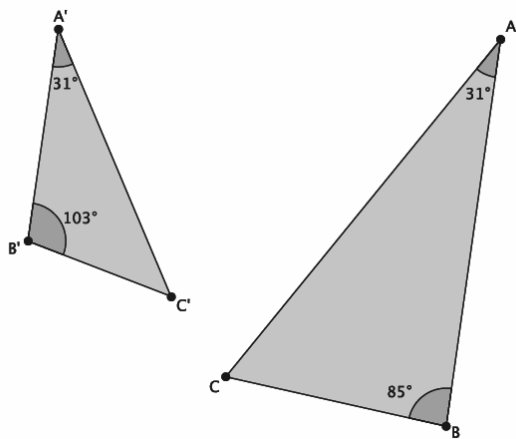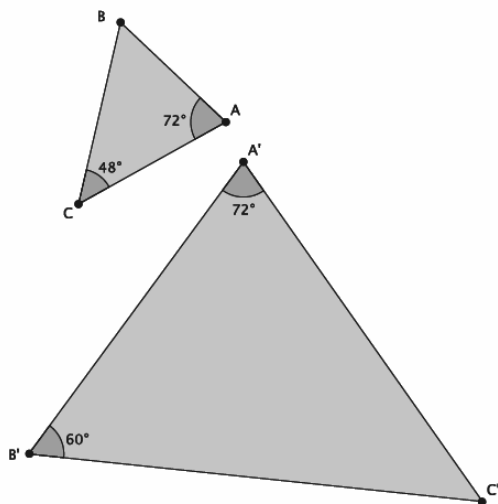
3. Are the triangles shown below similar? Present an informal argument as to why they are or are not similar.

4. Are the triangles shown below similar? Present an informal argument as to why they are or are not similar.

5. Are the triangles shown below similar? Present an informal argument as to why they are or are not similar.
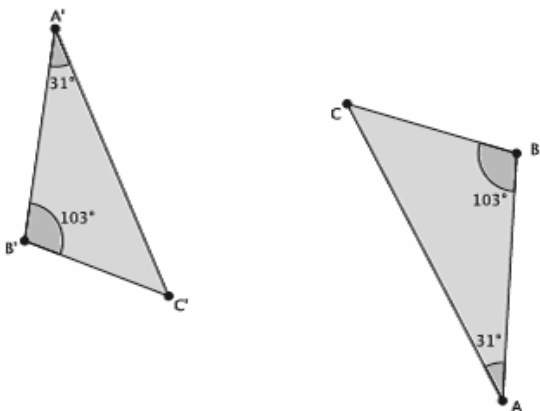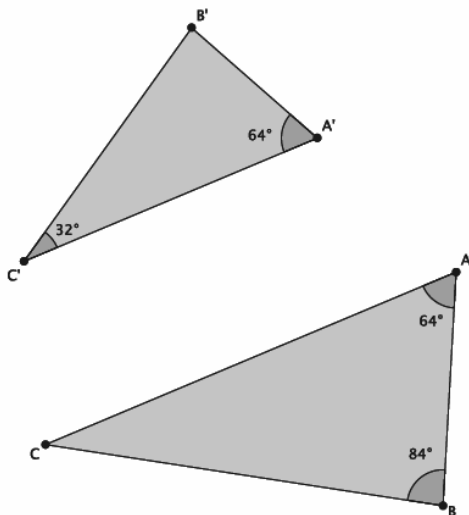
Lesson Summary

Two triangles are said to be similar if they have two pairs of corresponding angles that are equal in measure.
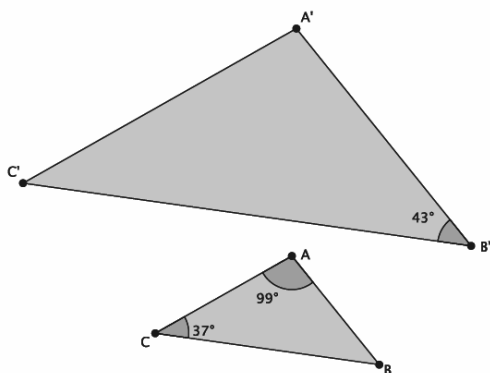
Problem Set

1. Are the triangles shown below similar? Present an informal argument as to why they are or are not similar.
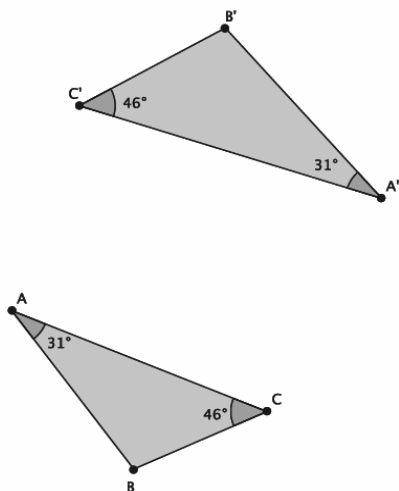

2. Are the triangles shown below similar? Present an informal argument as to why they are or are not similar.
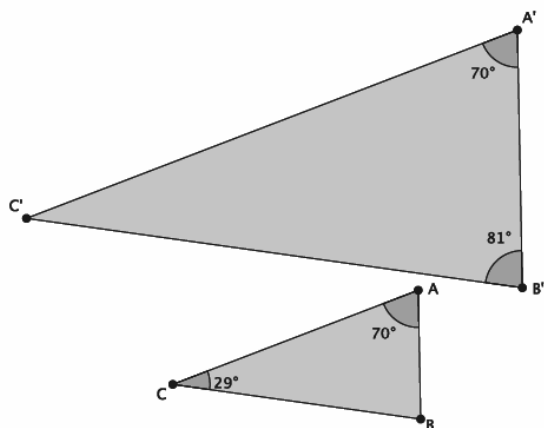
3.   Are the triangles shown below similar? Present an informal argument as to why they are or are not similar.
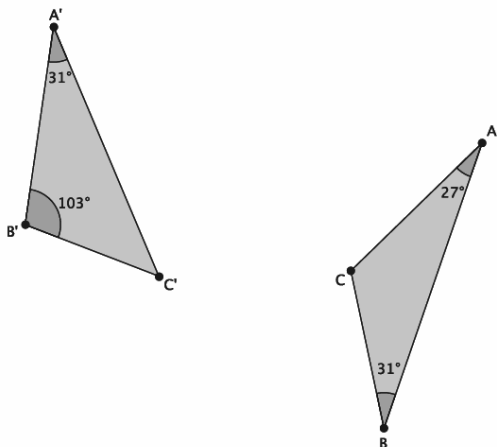

4.   Are the triangles shown below similar? Present an informal argument as to why they are or are not similar.

5.   Are the triangles shown below similar? Present an informal argument as to why they are or are not similar.

6.   Are the triangles shown below similar? Present an informal argument as to why they are or are not similar.

7.   Are the triangles shown below similar? Present an informal argument as to why they are or are not similar.