

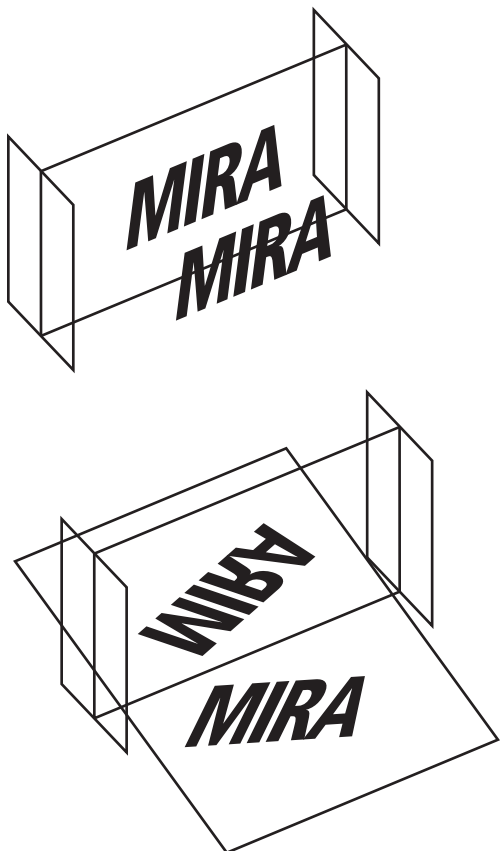
LESSON

Geometry Lab**4-4****Investigating Triangle Congruence: SSS and SAS**

Use with Lesson 4-4

Materials: MIRA, protractor, ruler and pencil

You can explore what you have learned about triangle congruence with a MIRA.



A MIRA is made of red plastic which is translucent making it possible to see both an image reflected in the MIRA, as in the first diagram; as well as an image reflected from paper onto the paper on the other side of the MIRA, as in the second diagram.

The MIRA has a top and bottom. The bottom has a beveled edge, which needs to be placed facing you (and of course, on the bottom).

When you line up the MIRA on a line of symmetry or reflection line, you must place the beveled edge on the line of symmetry or reflection line, and facing you.

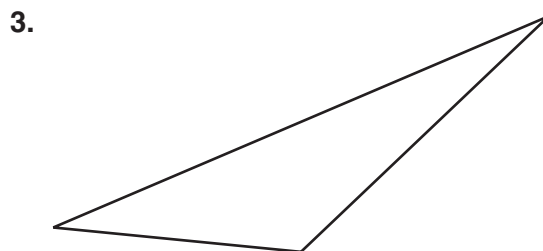
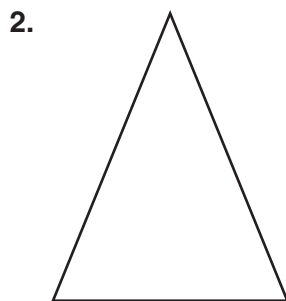
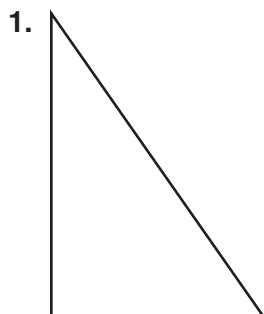
When you draw a line you must trace it along the beveled edge.

Activity

Use the MIRA to draw a figure congruent to each of the following figures in the space provided. In the last two exercises, you must first draw the triangle from the information given, then draw a congruent triangle using the MIRA. A congruent figure is one which has the exact same size and shape as the original. In this lab you will explore triangle congruence when you are given the three sides of a triangle, and when you are given two sides and the angle between them.

LESSON **4-4** **Geometry Lab**
4-4 *Investigating Triangle Congruence: SSS and SAS* continued

Try This



4. Draw a triangle with sides 4 cm, 5 cm, and 6 cm.

5. Draw a triangle with sides 2 cm and 4 cm, and angle between of 50° .

Lesson 4-4

