

**LESSON** **1-7** **Technology Lab Recording Sheet** pp. 56–57  
**Explore Transformations with Geometry Software**

**Try This**

**Activity 1**

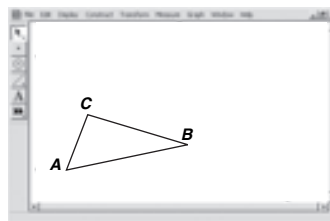
4. What do you notice about the relationship between your preimage and its image?  
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5. What happens when you drag a vertex or a side of  $\triangle ABC$ ?  
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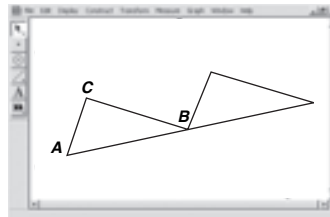
**Try This**

For Problems 1 and 2 choose **New Sketch** from the **File** menu.

1. Construct a triangle and a segment outside the triangle. Mark this segment as a translation vector as you did in Step 2 of Activity 1. Use Step 4 of Activity 1 to translate the triangle. What happens when you drag an endpoint of the new segment?  
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2. Instead of translating by a marked vector, use **RECTANGULAR** as the translation vector and translate by a horizontal distance of 1 cm and a vertical distance of 2cm. Compare this method with the marked vector method. What happens when you drag a side or vertex of the triangle?  
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3. Sketch the angles and sides of the preimage and image triangle. Use the tools in the **Measure** menu to measure length, angle measure, and area. What do you think is true about these two figures?  
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