
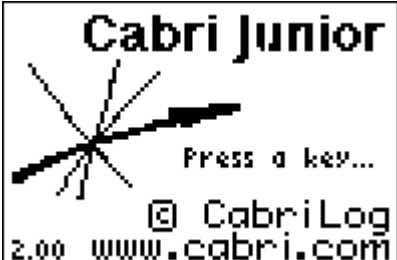
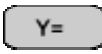

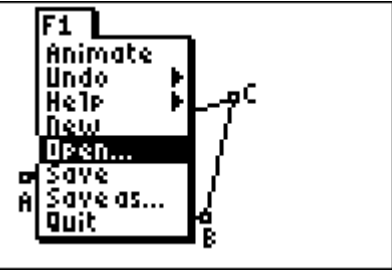

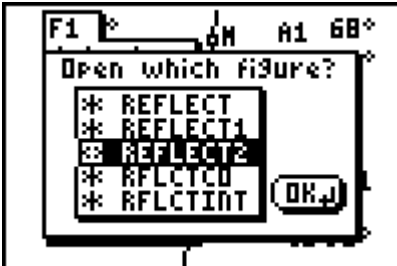

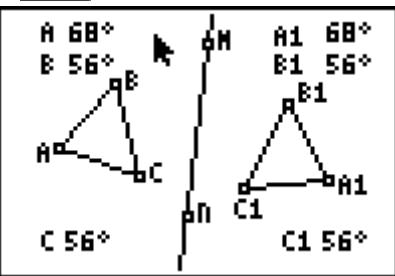


Student Worksheet for G.G.55 Investigate, justify, and apply the properties that remain invariant under reflections Angle Measure

<p>After turning on your handheld press</p> 	<p>Select CabriJr.</p> 
<p>  scroll down to Open</p> 	<p> scroll to REFLECT1</p> 
<p></p> 	<p><math>\Delta A_1B_1C_1</math> is the image of <math>\Delta ABC</math> under a reflection through <math>\overline{MN}</math>.</p> <p>The measures of the angles of the triangles have been indicated.</p> <p>You will move the vertices of <math>\Delta ABC</math> and draw conclusions about the image <math>\Delta A_1B_1C_1</math></p>

- 1.) Select grab and drag point A.  
 What is changing? \_\_\_\_\_  
 What is remaining the same? \_\_\_\_\_
- 2.) Select grab and drag point B.  
 What is changing? \_\_\_\_\_  
 What is remaining the same? \_\_\_\_\_

3) Select, grab and drag point C. As you move point C stop and record 5 successive trials by entering the measures of the angles in the table below.

Trial #	$\angle ABC$	$\angle A_1B_1C_1$	$\angle BCA$	$\angle B_1C_1A_1$	$\angle CAB$	$\angle C_1A_1B_1$
1						
2						
3						
4						
5						

4) What seems to be true about the measures of  $\angle ABC$  and  $\angle A_1B_1C_1$  ?

\_\_\_\_\_

5) Name two other pairs of angles that demonstrate this same property.

\_\_\_\_\_

6) Under the transformation glide reflection is angle measure preserved?

\_\_\_\_\_

7) In your own words explain what it means when a property is preserved.

\_\_\_\_\_