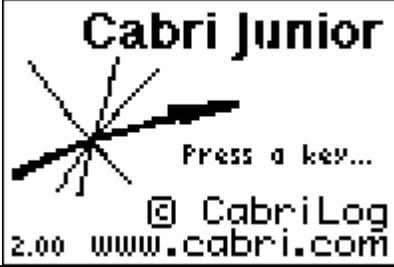
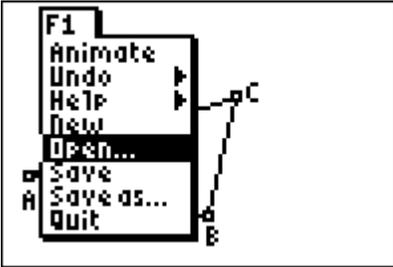
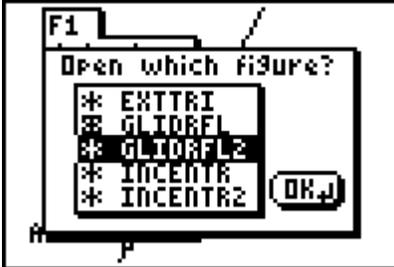
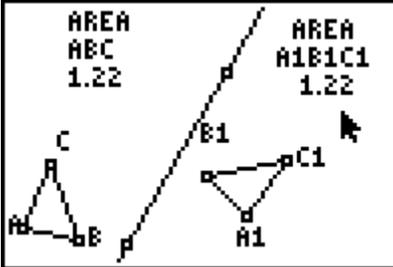


Student Worksheet for G.G.55 Investigate, justify, and apply the properties that remain invariant under glide reflections AREA

<p>After turning on your handheld press</p> <p>APPS</p> 	<p>Select CabriJr.</p> <p>5</p> 
<p>Y=  scroll down to Open</p> 	<p>ENTER scroll to GLIDRFL2</p> 
<p>ENTER</p> 	<p>$\Delta A_1B_1C_1$ is the image of ΔABC under a glide reflection.</p> <p>The areas of the sides of the triangles have been indicated.</p> <p>You will move the vertices of ΔABC and drawn conclusions about the image $\Delta A_1B_1C_1$</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 areas in the table below.

Trial Number	Area of $\triangle ABC$	Area of $\triangle A_1B_1C_1$
1		
2		
3		
4		
5		

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

5) Under the transformation glide reflection is area preserved? _____

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