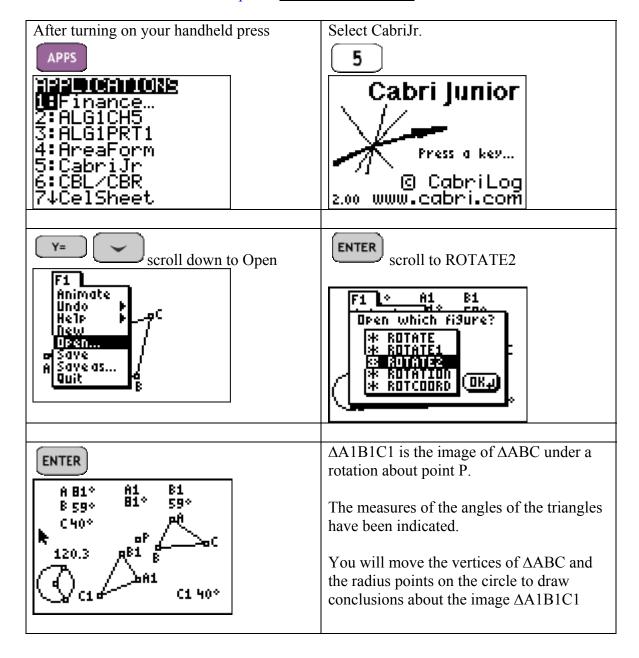
Student Worksheet for G.G.55 Investigate, justify, and apply the properties that remain invariant under rotation about a point. ANGLE MEASURE



	1.) Select, grab and drag either radius point on the circle							
	What is changing?							
	What is remaining the same?							
	2.) Select, grab and drag point A.							
	What is changing?							
	What is remaining the same?							
	3.) Select, grab and drag point B.							
What is changing?								
	What is remaining the same?							
	3) Select, grab and drag point A, B, C or either radius point. As you move your							
	selected point, stop and record 5 successive trials by entering the measures of the							
	angles in the table below.							
Trial #		∠ABC	∠A1B1C1	∠BCA	$\angle B1C1A1$	∠CAB	$\angle C1A1B1$	
1								
2								
3								
4								
5								
4) What seems to be true about the measures of $\angle ABC$ and $\angle A1B1C1$?								
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.							