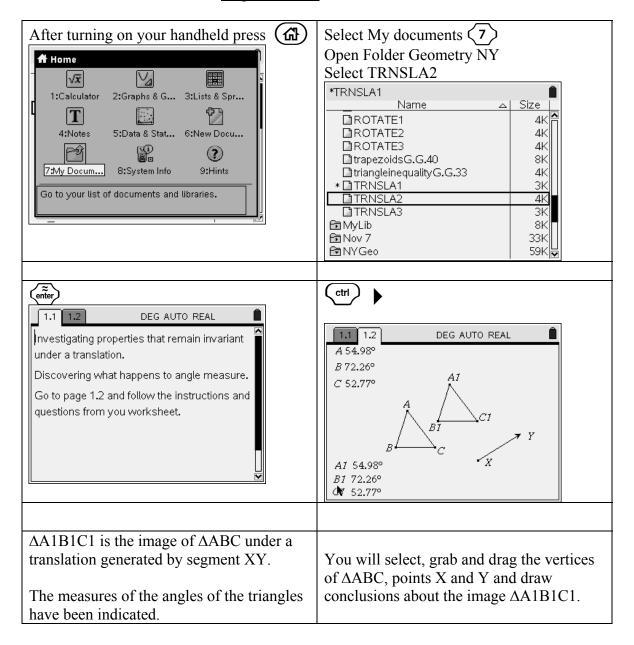
Student Worksheet for G.G.55 Investigate, justify, and apply the properties that remain invariant under a translation. Angle Measure



1.) Select, grab and drag points A, B, C.						
What is changing?						
What is remaining the same?						
2.) Select grab and drag segment XY.						
What is changing?						
What is remaining the same?						
3.) Select grab and drag point X or point Y.						
What is changing?						
What is remaining the same?						
4) Select, grab and drag point A, B, C, X or Y. As you move the point, stop and						
record 5 successive trials by entering the measures of the angles in the table below.						
Trial #	∠ABC	∠A1B1C1	∠BCA	∠B1C1A1	∠CAB	$\angle C1A1B1$
1						
2						
3						
4						
5						
<ul> <li>5) What seems to be true about the measures of ∠ABC and ∠A1B1C1?</li> <li>6) Name two other pairs of angles that demonstrate this same property.</li> </ul>						
7) Under a translation, is angle measure preserved?						