
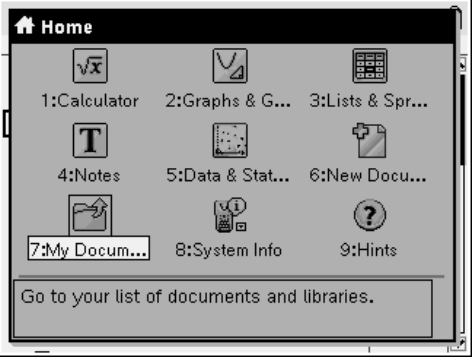

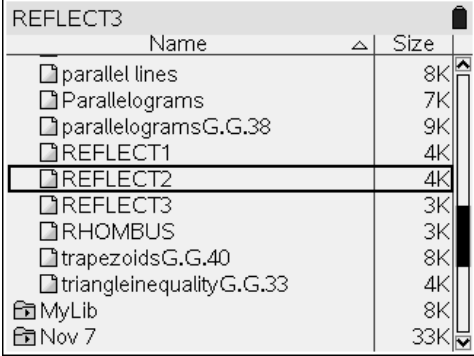

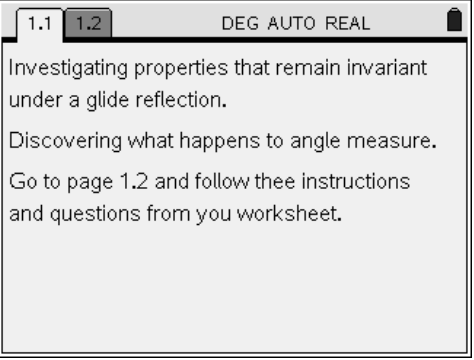

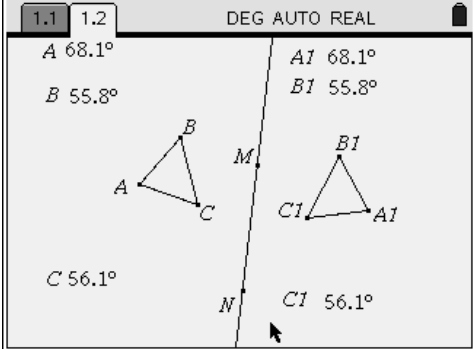


TI- Nspire Student Worksheet for G.G.55 Investigate, justify, and apply the properties that remain invariant under reflections Angle Measure

<p>After turning on your handheld press </p> 	<p>Select My documents </p> <p>Open Folder Geometry NY Select REFLECT2</p>  <table border="1" data-bbox="824 426 1295 779"> <thead> <tr> <th>Name</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>parallel lines</td><td>8K</td></tr> <tr><td>Parallelograms</td><td>7K</td></tr> <tr><td>parallelogramsG.G.38</td><td>9K</td></tr> <tr><td>REFLECT1</td><td>4K</td></tr> <tr><td>REFLECT2</td><td>4K</td></tr> <tr><td>REFLECT3</td><td>3K</td></tr> <tr><td>RHOMBUS</td><td>3K</td></tr> <tr><td>trapezoidsG.G.40</td><td>8K</td></tr> <tr><td>triangleinequalityG.G.33</td><td>4K</td></tr> <tr><td>MyLib</td><td>8K</td></tr> <tr><td>Nov 7</td><td>33K</td></tr> </tbody> </table>	Name	Size	parallel lines	8K	Parallelograms	7K	parallelogramsG.G.38	9K	REFLECT1	4K	REFLECT2	4K	REFLECT3	3K	RHOMBUS	3K	trapezoidsG.G.40	8K	triangleinequalityG.G.33	4K	MyLib	8K	Nov 7	33K
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<p></p>  <p>1.1 1.2 DEG AUTO REAL</p> <p>Investigating properties that remain invariant under a glide reflection.</p> <p>Discovering what happens to angle measure.</p> <p>Go to page 1.2 and follow these instructions and questions from you worksheet.</p>	<p></p>  <p>1.1 1.2 DEG AUTO REAL</p> <p>A 68.1° A1 68.1°</p> <p>B 55.8° B1 55.8°</p> <p>C 56.1° C1 56.1°</p>																								
<p>$\triangle A_1B_1C_1$ is the image of $\triangle ABC$ under a reflection through \overline{MN}.</p> <p>The measures of the angles of the triangles have been indicated.</p>	<p>You will move the vertices of $\triangle ABC$ and drawn conclusions about the image $\triangle A_1B_1C_1$</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 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.
