GeoGebra Lab

Unit 2

Open the geogebra icon on the desktop. If missing go to www. Geogebra.org then click Download then Webstart.

Rotations

- 1. Go to view then layout and select the circle/triangle box. Click on the grid tab and check the box show grid.
- 2. Create points A(5, 1) and B(-1, -1).
- 3. Connect the points A(5, 1) and B(-1, -1).) to make a segment.
- 4. Create a rotation of 150 degrees counterclockwise about the point B (-1, -1).
- 5. Use the measurement tool to measure the distance AB and AB'.
- 6. Draw a circle with center B through point A.
- 7. Print the document. The title is Rotation. The Author is your name.
- Open a word document. Title your paragraph Rotations. Include your name and hour. In a
 paragraph, explain how you know (verify) that the computer actually rotated point A 150
 degrees counterclockwise to Point A'. Remember to use the definition of rotation to support
 your explanation. (See back for formatting)

Reflection

- 1. In Geogebra, open a new document.
- 2. Go to view then layout and select the circle/triangle box. Click on the grid tab and check the box show grid.
- 3. Create segment with endpoints (5, 1) and (4, 3).
- 4. Draw a line where x = 1. (You must create two points on the line, then connect)
- 5. Create a reflection across the x = 1 line.
- 6. Create a segment between points A and A'. Create another segment between B and B'.
- Create points (intersection of two objects) where the newly created segments intersect the line x = 1.
- 8. Take measurements with Geogebra to assist you in the verification that the segment is the image of the segment with endpoints (5, 1) and (4, 3). Hint: You will need to measure segments and angles.)
- 9. Print the document. The title is Reflection
- 10. Return to your word document. Title your paragraph reflection. Using equation editor for symbols, explain (verify) that the image is a reflection. Use geometrical terminology, definition of reflection as well as reference values calculated by geogebra.

Geogebra Lab

Name and block

Rotation

I know this is a rotation because......

Reflection