I. The RULES

A. For the following activities, we will use the same rules that we have been using in class: only a compass and straightedge are allowed. This means you can only use the following tools:

The Selection tool.

The Point tool.

The Compass tool.

The Straightedge tool (click and hold to choose

between segment, ray, and line).

There is one more tool you can use: Since the Compass tool does not let you keep the radius setting, you can also measure the radius of a circle and then construct a circle with the same radius. Practice this by following these steps:

- a) Create any circle and a point P that is not on the circle.
- b) Select ONLY the circle and measure its radius (under the Measure menu).
- c) Select the radius measurement and the point P.
 Under the Construct menu, choose "Circle By Center+Radius."

II. Create a blank sketch with 7 pages.

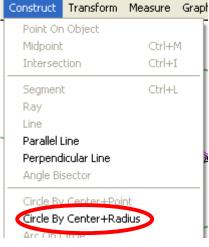
- A. Open Geometer's Sketchpad and create a sketch that has 7 pages. Do this by selecting "Document Options" under the "File" menu.
- B. Click the "Add Page" button and select "Blank Page." (see picture)
- C. Do this until you have 7 pages. Then click "OK."

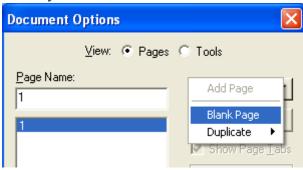
III.Copy a segment

- A. On Page 1, create segment AB (if necessary, re-name the points so that it is segment AB).
- B. Use the construction tools to construct a copy of segment AB. Name this segment XY.
- C. Use the "Hide" command (under "Display") to hide the construction marks so only the segment and its copy are displayed.

IV.Copy an angle and make an angle bisector.

- A. On Page 2, create angle ANG.
- B. Use the construction tools to copy angle ANG. Call the copy angle LES.
- C. Hide the construction marks.
- D. Construct the angle bisector of ANG. Call it ray NO.
- E. Hide the construction marks.
- V. Construct a perpendicular bisector.
 - A. On Page 3, create segment BI.
 - B. Construct the perpendicular bisector of BI.





- C. Construct the midpoint M of BI.
- D. Hide the construction marks.

VI.Construct a perpendicular.

- A. On Page 4, create a line ME and a point P.
- B. Construct line YU perpendicular to line ME and passing through P.
- C. Hide the construction marks.

VII.Construct a parallel.

- A. On Page 5, create a line US and a point Q.
- B. Construct line WE so it is parallel to line US.
- C. Hide the construction marks.

VIII.From the book

- A. On Page 6, use Sketchpad to do one of the constructions from today's homework.
- B. Make a text label that tells me what problem you did.
- C. Hide the construction marks.

IX.From the quiz.

- A. On Page 7, use Sketchpad to reproduce the figure from Problem 3 of the quiz. You may use a ruler and protractor to find measurements if that helps.
- B. Hide the construction marks.

X. Save the file.

- A. Save your file as "geo36LastnameFirstname.gsp", where Lastname is *your* last name and Firstname is *your* first name.
- B. E-mail the file to Mr. Dunigan AtLee at aatlee@cm.edu.gt. with "Geometry 3.6" as the subject line.