

## **Math 330A (Barsamian) Computer Project 1: Parallel Lines and Alternate Interior Angles**

### Computer login & filing tasks

1. Login to the computer
  - id: your Oak ID
  - password: last 6 digits of your student ID number
2. On your computer desktop, create a folder called CP1.

### Geometer's Sketchpad tasks

1. Open a new drawing in Geometer's SketchPad (GSP)
2. Construct a line.
3. Label the two points on the line A and B, and label the line L.
4. Construct a point not on L.
5. Label the point C.
6. Construct a line that passes through C that is parallel to L.
7. Label the line M.
8. Construct a line that passes through points A and C.
9. Label the line T.
10. Construct a point on line M that is on the other side of line T from point B.
11. Label the point D.
12. Measure angle B,A,C
13. Measure angle D,C,A
14. Save an image of your drawing in its current state.
  - On the GSP [File] menu, click [Save As...]
  - Save in: CP1 folder that you created on the desktop
  - File name: drawing 1
  - Save as type: Windows Metafile (\*.wmf)
15. In your drawing in GSP, move point C.
16. Save an image of your drawing in its current state.
  - On the GSP [File] menu, click [Save As...]
  - Save in: CP1 folder that you created on the desktop
  - File name: drawing 2
  - Save as type: Windows Metafile (\*.wmf)

### Microsoft Word Tasks

1. Open a new document in Microsoft Word (MSWord)
2. Create a title in the document
  - Your Name
  - Spring 2008 Math 330A Computer Project 1
  - Parallel Lines in Geometer's Sketchpad and NonEuclid
3. Save the document
  - Save in : CP1 folder that you created on the desktop
  - Filename: 330A\_CP1\_YourLastName
  - File type: .docx
4. Insert into your document the two drawings that you saved from GSP.
5. Crop and re-size the drawings so that they look good.
6. Type captions and brief explanations for each drawing.

## NonEuclid Tasks

1. Open a new drawing in NonEuclid
2. Change the background color to white
3. Construct a line A,B
4. Construct another line A,C where C is some point above line A,B.
5. Measure angle B,A,C
6. Create a line C,D that does not intersect line A,B
7. Create another line C,E that does not intersect line A,B
8. Measure angle C,A,B
9. Measure angle A,C,D
10. Measure angle A,C,E
11. Put a picture of your drawing in its current state into your MSWord document
  - Save an picture of your NonEuclid workspace by typing [Alt]+[Print Screen]. This saves a picture of the active window on the computer clipboard.
  - Paste the picture that you just saved into your MSWord document.
  - Resize and crop the picture so that it looks good.
  - Type a a caption and explanation for the picture.
12. Back in GSP, move point C
13. Put a picture of your drawing in its current state into your MSWord document
  - Save an picture of your NonEuclid workspace by typing [Alt]+[Print Screen]. This saves a picture of the active window on the computer clipboard.
  - Paste the picture that you just saved into your MSWord document.
  - Resize and crop the picture so that it looks good.
  - Type a a caption and explanation for the picture.

## Microsoft Word Tasks

1. Save your MSWord document.
2. e-mail your document to me
  - my e-mail address: barsamia@ohio.edu
  - subject line: Math 330A CP1 yourlastname
  - message: whatever you want to say
  - attachment: your MSWord document

## Computer tasks

1. Close GSP
2. Close NonEuclid
3. Close MSWord
4. Logout