Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_ Class: \_\_\_\_\_\_\_\_\_\_\_\_\_

**Session 1: Points, Lines, Segments**

\*All exercises should be opened in the editor and ran in the terminal as stated in the introduction.

**Session 1 Part 1**

Open the editor and then open example1a.hs. Look at the code and write down what you understand in the code. Run the code.

Questions:

1. What function draws the points?
2. What function draws the labels?

***Exercise:*** *Draw and Label three additional points in the program.*

*Save the program as yourname\_1b.hs*

*Run the program to check.*

Question: How do you think we would draw a segment between points A and B?

**Session 1 Part 2**

Open the editor and then open example1c.hs

***Exercise:*** *Determine what the program will draw. Write down your guess:*

*Run the program to check.*

Question: What function do you think we would use to draw lines?

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_ Class: \_\_\_\_\_\_\_\_\_\_\_\_\_

**Session 1: Points, Lines, Segments**

\*All exercises should be opened in the editor and ran in the terminal as stated in the introduction.

**Session 1 Part 3**

Open the editor and then open example1d.hs

***Exercise:*** *Determine what the program will draw.*

*Run the program to check.*

***Session 1 Part 4***

***Exercise:*** *Open example1e.hs*

*Sketch a drawing of what you think is happening in this program.*

*Run the program to check your answer*

***Exercise:*** *Open example1f.hs.*

*Complete the program to draw the following objects:*

1. *Segment AB*
2. *Line BC*
3. *Segment CA*
4. *Message needs to read “Segments and Lines”*

*Save the program as yourname\_1f.hs and run the Program to check.*

***Exercise:*** *Using four random points, how many segments would you need to connect each point with the other three points on the graph?*

*Manipulate one of the programs above to check your answer.*

*Save the program as yourname\_1g.hs and run the program to check.*

***Exercise:*** *Repeat the above exercise for 5 random points.*

*Save the program as yourname\_1h.hs and run the program to check.*

**Session 1 Part 5**

You will now follow the instructions given in class to complete the following files:

* p01points
* p02collinear
* p03triangle
* p04ushape
* p05parallel
* p06perpendicular