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

**Lesson 1: Points, Lines, Segments**

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

**Lesson 1 Part 1:** Open the editor and then open lesson1a.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\_lesson1b.hs*

*Run the program to check.*

Questions:

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

**Notes:**

**Lesson 1 Part 2:** Open the editor and then open lesson1c.hs.

Questions:

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

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

*Run the program to check.*

**Lesson 1 Part 3:** Open the editor and then open lesson1d.hs

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

*Run the program to check.*

***Lesson 1 Ending Exercises:***

***Exercise:*** *Open lesson1e.hs*

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

*Run the program to check your answer.*

***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\_lesson1g.hs*

*Run the program to check.*

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

*Save the program as yourname\_lesson1h.hs*

*Run the program to check.*

***Exercise:*** *Open lesson1f.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\_lesson1bc.hs.*

*Run the Program to check.*