Zachary Johnson Lab 1 Writeup

- 2a) The use of pi at line 4 is bound by line 2 because the value of pi inside of the function circumference is different than the value outside of the function. The use of pi at line 7 is bound at line 1 because pi is used as a global variable.
- 2b) The use of x at line 3 is bound by line 2 because x is being taken as input in the function. The use of x at line 6 and line 10 is bound by line 5 because x is being used in the case on line 5 and both x's are in the case. The use of x at line 13 is bound by line 1 because on line 1, x is global.
- 3) Yes, the body expression of g is well typed with type ((Int, Int), Int). I determined this because I know that a is an integer, a=1, and b=(x,3). I know that b is an integer tuple because the function defines x as an integer.

Formal argument:

(b,1): ((Int, Int), Int) because

b: (x, 3): (Int, Int) because

x: Int

3: Int

1: Int