

Will Christie
Partner: Eric Murphy
CSCI 3155

Lab 1 Write up:

2.

a) The use of pi at line 4 is bound at line 3 (val pi = 3.14159) because pi is bound within the scope of circumference.

In contrast the use of pi at line 7 is bound at line 1 (val pi = 3.14) because it is outside the scope of circumference.

b) The use of x at line 3 is bound at line 3 because match statements can bind values.

The use of x at line 6 is bound at line 5 because case statements can bind values.

The use of x at line 10 is bound at line 5 because case statements can bind values and line 10 is within the scope of case x.

Finally, the use of x at line 13 is bound at line 1 (val x=3) because the initial definition of x is the only definition within the current scope.

3. Yes, the body expression of g is well typed with type Int.

val(a, b) Int because

a: Int (1 = Int)

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

Therefore: ((Int, Int), Int) results in return type Int.