

2. Pi in line 4 is bound at line 3 because it reassigns pi in circumference. Pi in line 7 is bound at line 1 because it is not defined locally in the area function so it looks outside of the scope.

3. Yes, it is well-typed because the function returns a tuple.

(a,b) : (int, (int, int)) because

a : int

b : (int, int)

(b,1) = ((int,int), int) because

b : (int, int)

1: int

(b, a+2) = ((int, int), int) because

b: (int, int)

a: int