

## 2. Binding and Scoping

- a) The use of `pi` at line 4 is bound in line 3, because both are within the function definition for `circumference`. The use of `pi` at line 7 is bound in line 1, because the `pi` defined in the `circumference` definition is only in scope within that definition.
- b) The use of `x` at line 3 is bound at line 2, because `x` is a parameter for the function `f`. The `x` used in line 6 is bound in line 5 at the case statement. The `x` in line 10 is also bound in line 5 for the same reason. The `x` at line 13 is bound in line 1, as we are no longer within the function definition.

## 3. Typing

The body expression of `g` is well-typed with type `Tuple`.

a: `Int` because it is set equal to 1.

b: `Tuple` because it is set to `(x, 3)`

`g` will return a tuple of a tuple and an `int`.