

- 1.
2.
  - a. The use of  $\pi$  at line 4 is bound by line 3.
  - b. The use of  $\pi$  at line 7 is bound by line 1.
  - c. The  $x$  at line 3 is bound by line 2.
  - d. The  $x$  at line 6 is bound by line 2.
  - e. The  $x$  at line 10 is bound by line 5.
  - f. The  $x$  at line 13 is bound by line 1.
3. The body of  $g$  is well-typed.

The return type of  $g$  is a tuple:  $((\text{int}, \text{int}), \text{int})$ , because  $b: (\text{int}, \text{int})$  and  $a: \text{int}$ , where  $(b, a): ((\text{int}, \text{int}), \text{int})$ .

$G: ((\text{int}, \text{int}), \text{int})$  because:

$a: \text{int}$

$b: (\text{int}, \text{int})$