Submission of assignments is optional. Submitted assignments will not be graded. If your solution differs from the posted solution, please submit it and indicate clearly why you think your solution is correct.

1. Mitchell, exercise 6.2
2. Mitchell, exercise 6.5
3. Mitchell, exercise 6.6
4. Mitchell, exercise 6.7
5. Derive the type of

```
fun ff f x y = if (f x y) then (f 3 y) else (f x "zero")
```

6. Derive the type of

```
fun gg f x y = if (f x y) then (f 3 y) else (f y "zero")
```

7. Derive the type of

```
fun hh f x y = if (f x y) then (f x y) else (f x "zero")
```