

# CS 773 Winter 2002

## Exercise Set 3

Instructor: William M. Farmer

Revised: 4 March 2002

For the following two exercises, do the given IMPS exercise. The IMPS exercises are found under the **IMPS-Help -> Exercises** menu. Send the instructor an IMPS file (i.e., a file with a `.t` extension) that includes:

- (1) All the def-forms in the exercise file and any additional def-forms that you have added.
- (2) Proofs for all the def-theorems in the file.
- (3) Comments of the form

`;;; [comment]`

expressing your experiences in doing the exercise. If you find any mistakes in the exercise, identify them in your comments. Most of your mark will be given on the basis of what your comments are.

To receive a full mark, the file must load without any errors and all theorems should be grounded when the **General -> Load IMPS File** command is applied to it after

```
(set (proof-log-port) (standard-output))
```

is evaluated in the `*tea*` buffer.

### Exercise 4

**20 pts., due no later than 15-MAR-2002, required**

IMPS indicators-exercise.

### Exercise 5

**20 pts., due no later than 15-MAR-2002, required**

IMPS calculus-exercise.

### **Exercise 6**

**20 pts., due no later than 5-APR-2002, optional**

Do Exercise 2 using IMPS instead of your chosen system. Send the instructor your IMPS file with comments and proofs.