CS 773 Winter 2001

Exercises and Presentations 2

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Exercise 3

8 pts., due no later than 15-FEB-2001.

Write the following three theories:

1. A first-order theory of preorders.
2. A first-order theory of partial orders.
3. A first-order theory of total orders.

How are the three theories related? How are their models related? How can a preorder be viewed as a partial order?

Exercise 4

5 pts., due no later than 15-FEB-2001.

Install a second one of the mechanized mathematics systems listed in Exercise 2. You must choose a system that has not been installed by any other student. See the course Web site for references. Send an e-mail message to the instructor after the system is installed and working so that he can try it out.