

Math s21 - Day Twelve (Thursday, May 10, 2007)

9:00-10:20

- A. Students present selected homework problems.
- B. “We’re halfway there” discussion: What are our goals in Math Camp?

10:20-10:35 Break

10:35-11:30

- C. Groups of three work through section 5.4. Complete Exercises 5.4.4 and 5.4.6. Then complete Problem 5.4.10. If you finish all those, go back to Theorem 5.4.2 and begin proving all theorems in the section.
- D. *If we are ready*, present exercises and Problem 5.4.10 at the board.

11:30-11:55 L^AT_EX

11:55-1:00 Lunch

1:00-3:00

- E. Plan for picnic next week.
- F. Continue 5.4 if more time is needed.
- G. Extra proof practice!
 - (a) Prove that $f : (2, \infty) \rightarrow (1, \infty)$, given by $f(x) = \frac{x}{x-2}$, is a one-to-one correspondence.
 - (b) Prove the following: “Let (A, \leq_A) and (B, \leq_B) be order-isomorphic partially ordered sets. Let $x \in A$ and $y \in A$. Then y is the immediate successor of x in A if and only if $f(y)$ is the immediate successor of $f(x)$ in B .”

NEW KEY IDEAS TODAY

order-preserving function
order isomorphism
order isomorphic

HOMEWORK

1. Study for exam.
2. Kick senior math major butt in Friday softball game.
3. Over the weekend: work on L^AT_EX assignment final draft.

SECTION TO DISCUSS MONDAY

5.5