

## 1 Reading

In *A T<sub>E</sub>Xas Style Introduction to Proofs*, read sections 4.7 and 4.8. Look at the directions for the Writing Project and thinking about what you might write about.

## 2 Response

Answers to these should be written down and turned in in class.

1. Have you seen any operations like  $\bigcup_{i \in I}$  before?
2. Give a new example, not in the book, of a union.
3. Can you come up with any examples of unions which stretch the definition, or where you're not sure what it means? (Not just because it's so complicated that you can't work with it: something that's actually on the edge of your understanding of the definition.)

## 3 Exercises

You should bring solutions to these to class and be prepared to present them.

1. Exercise 4.91
2. Exercise 4.95
3. Exercise 4.106

## 4 Homework Problems

Due Thursday, March 19th

1. Statement 4.97
2. Challenge 4.101
3. Statement 4.117
4. Exercise 4.121