

## 1 Reading

In *A T<sub>E</sub>Xas Style Introduction to Proofs*, read Section 6.4.

## 2 Response

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

1. Come up with some examples of infinite sets. Do you think they have the same cardinality as  $\mathbb{N}$ , the same cardinality as  $\mathbb{R}$ , or some other cardinality? (You probably can't definitively answer for many examples, so just make a guess based on your best intuition.)

## 3 Exercises

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

1. Statement 6.25

## 4 Homework Problems

Due Thursday, April 23rd

1. Statement 6.30
2. Question 6.31
3. Statement 6.34 (*don't* use Cantor-Schroeder-Bernstein)
4. Statement 6.39 (use Cantor-Schroeder-Bernstein)