

## 1 Reading

In *A T<sub>E</sub>Xas Style Introduction to Proofs*, read section 5.4.

## 2 Response

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

1. Come up with some examples and non-examples of functions. This is a subtle definition: try to think of some things you might have expected to be functions, but aren't, or things you might not have expected to be functions, but are.
2. What is the difference between the range and the codomain of a function? Are they ever the same? Are they ever different?

## 3 Exercises

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

1. Exercise 5.73
2. Exercise 5.78

## 4 Homework Problems

Due Thursday, April 9th

1. Exercise 5.79cde
2. Statement 5.87
3. Statement 5.88
4. Statement 5.89