Reminder

- ▶ The second exam takes place next class (April 11).

- ▶ The material for the exam is mainly Chapter 5 and Sections 6.1 and 6.2.

- ▶ Please bring your own paper to work on.

Vocabulary review

Define the following terms.

1. continuous mapping
2. path-connected space
3. component of a topological space
4. metric (distance function)
5. topology induced by a metric
6. equivalent metrics
7. metrizable space
8. isometry
9. first-countable space
10. convergence in a metric space

Theorem review

1. How many ways do you know to say that $f\colon X \to Y$ is continuous?

2. What theorems do you know that contain both the words "continuous" and "connected"?

3. What theorems do you know about the concepts of connectedness and path-connectedness?

4. What theorems do you know about metric spaces?

Assignment due next class

Study for the upcoming exam.