Math 500, Homework 3

General Product Topology

Due at start of class, Thursday, 10/6

Reading Read §19 of Munkres.

Exercises (to do on your own)

1. Prove that if $\{X_{\alpha}\}_{{\alpha}\in J}$ is a collection of Hausdorff spaces, then $\prod_{{\alpha}\in J} X_{\alpha}$ is Hausdorff in both the product and box topologies.

Problems (to turn in)

- 1. Munkres §19, exercise 7.
- 2. Munkres §19, exercise 8.