York University   CSE2001   June 25, 2012

Homework Assignment #7
Due: July 3, 2012 at 7:00 p.m.

Submit your solution to this assignment as a pdf file using the submit command.

1. Let $\mathbb{N}$ be the set of all natural numbers.

    (a) Prove that the set of all finite subsets of $\mathbb{N}$ is countable.

    (b) Prove that the set of all subsets of $\mathbb{N}$ (i.e., $\mathscr{P}(\mathbb{N})$) is uncountable.