Homework Assignment #7
Due: March 16, 2011 at 2:30 p.m.

1. Is $\mathbb{N} \times \mathbb{N}$ countable? Prove your answer is correct.

2. Is $\mathcal{P}(\mathbb{N})$ countable? Prove your answer is correct.
(Recall that if S is a set, $\mathcal{P}(S)$ is the power set of S.)