Name:			
Did:			

1. (10 points) Let $S \subseteq \mathbb{N}$ be a nonempty set. Show that S is decidable iff there is a function $f : \mathbb{N} \to \mathbb{N}$ such that f is computable, f is nondecreasing, and Im f = S.

2. (10 points) Let $A, B \subseteq \mathbb{N}$ be enumeratable sets. Show that $A \times B$ is enumeratable.