CSCI 2400 – Models of Computation

# Homework 11
Due: Thursay April 15,

**Problem 1.**   Let $L$ be a context-free language. Show that $L^+$ is recursively enumerable.

**Problem 2.**

(a) Is the family of recursive languages closed under union? Prove your answer.

(b) Is the family of recursively enumerable languages closed under union? Prove your answer.

**Problem 3.**

(a) Is the family of recursive languages closed under intersection? Prove your answer.

(b) Is the family of recursively enumerable languages closed under intersection? Prove your answer.