

Math 477 “QUIZ” for Lecture 15

NAME: (print!) _____

E-MAIL ADDRESS: (print!) _____

1. Let X and Y be independent uniform distributions $U(0, 2)$. Find the density function of $X + Y$.

2. The number of spam emails that I get in any given day, in my Gmail account, has a Poisson distribution with mean 1. The number of spam emails that I get in any given day, in my Rutgers account, has a Poisson distribution with mean 4. They are independent of each other. What is the probability that the total number of spam emails is 5?