

Homework 4, Sta/OR 524 Fall 2005

Due Oct. 21

1. In the context of TEST I version 2, please find $P(\text{NO rain} \mid \text{red})$ and $P(\text{rain} \mid \text{no umbrella})$.
2. Use the moment generating function to find EX^5 , where X is a $\text{Poisson}(\lambda)$ random variable.
3. Find the moment generating function for a binomial random variable with $n = 2$. Start from definition.