

Homework 1, Sta/OR 524 Fall 2005

Due Sept. 7

1. If X is a random variable with Poisson(λ) distribution. Please find $E(X^2)$.
2. For a fixed Poisson distribution with parameter λ , which integer value(s) has the highest probability/probabilities?
3. Focus on the probability $P(X = 2)$ in a Poisson distribution. What λ value will make this probability the largest?
4. Page 37 number 22.
5. Page 40 number 31.