

Homework 8 -461

Due Date: Wednesday April 22 (maybe Friday)

1. Suppose $P(X|Y = y)$ is Poisson with parameter y , and Y is exponential. Write down a formula for

$$P(X > 1, Y > 0) \quad P(X > 1, Y_1) .$$

2. 6.6 page 278
3. 6.19 page 278 (Friday)
4. 7.53 page 356
5. Conditioned on $p \in (0, 1)$ X_p is exponential distributed with parameter p . Find

$$E_p X .$$