

Econometrics II

Homework 1

P1. Let X_1, \dots, X_n be a random sample from the exponential distribution with p.d.f. $f(x, \lambda) = \lambda \exp(-\lambda x)$; $0 < \lambda < \infty$, the mean $E(X) = \mu = 1/\lambda > 0$ and variance $\text{Var}(X) = 1/\lambda^2$. Derive the MLE of λ .

P2. Wooldridge, Problem 17.2

P3. Wooldridge, Problem 17.5

P4. Wooldridge, Problem C17.2, parts (i)-(iii)

P5. Wooldridge, Problem C17.5, parts (i)-(iii)