

Example Sheet 3 (of 4)

1. Let x_1, x_2, \dots, x_n be positive real numbers.

(a) Show that their harmonic mean is no greater than their arithmetic mean, that is,

$$\left(\frac{1}{n} \sum_{i=1}^n \frac{1}{x_i} \right)^{-1} \leq \frac{1}{n} \sum_{i=1}^n x_i.$$

(b) Show that, if y_1, \dots, y_n is any reordering of x_1, \dots, x_n , then

$$\frac{1}{n} \sum_{i=1}^n \frac{y_i}{x_i} \geq 1.$$

2. Let X be a random variable.

(a) Show that, for all $p \in (0, \infty)$ and all $x \in (0, \infty)$,

$$\mathbb{P}(|X| \geq x) \leq \mathbb{E}(|X|^p) x^{-p}.$$

(b) Show that, for all $\beta \geq 0$,

$$\mathbb{P}(X \geq x) \leq \mathbb{E}(e^{\beta X}) e^{-\beta x}.$$

3. Let X be a Poisson random variable of parameter $\lambda \in (0, \infty)$.

(a) By optimizing the estimate of Question 2(b) over β , show that, for all $x \geq \lambda$,

$$\mathbb{P}(X \geq x) \leq \exp\{-x \log(x/\lambda) - \lambda + x\}.$$

(b) Show, on the other hand, that, for integers x , as $x \rightarrow \infty$,

$$\mathbb{P}(X = x) \sim \frac{1}{\sqrt{2\pi x}} \exp\{-x \log(x/\lambda) - \lambda + x\}.$$

4. Consider a random sample X_1, \dots, X_n taken from a distribution having mean μ and variance $\sigma^2 < \infty$. Use Chebyshev's inequality to determine a sample size n that will be sufficient, whatever the distribution, for the probability to be at least 0.99 that the sample mean \bar{X} will be within two standard deviations of μ .

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