HOMEWORK I SOLUTIONS $f(x) = \frac{1}{x} \int_{-x/\theta}^{x} \frac{e^{-x/\theta}}{h^{x}} = \frac{1}{x} \int_{-x/\theta}^{x} \frac{e^{-x/\theta}}{h^{x}}$ $f(x) = \frac{1}{x} \int_{-x/\theta}^{x} \frac{e^{-x/\theta}}{h^{x}} = \frac{1}{x} \int_{-x/\theta}^{x} \frac{e^{-x/\theta}}{h^{x}}$ $f(x) = \frac{1}{x} \int_{-x/\theta}^{x} \frac{e^{-x/\theta}}{h^{x}} = \frac{1}{x} \int_{-x/\theta}^{x} \frac{e^{-x/\theta}}{h^{x}}$ $f(x) = \frac{1}{x} \int_{-x/\theta}^{x} \frac{e^{-x/\theta}}{h^{x}} = \frac{1}{x} \int_{-x/\theta}^{x} \frac{e^{-x/\theta}}{h^{x}}$ $f(x) = \frac{1}{x} \int_{-x/\theta}^{x} \frac{e^{-x/\theta}}{h^{x}} = \frac{1}{x} \int_{-x/\theta}^{x} \frac{e^{-x/\theta}}{h^{x}}$ $f(x) = \frac{1}{x} \int_{-x/\theta}^{x} \frac{e^{-x/\theta}}{h^{x}} = \frac{1}{x} \int_{-x/\theta}^{x} \frac{e^{-x/\theta}}{h^{x}}$ $f(x) = \frac{1}{x} \int_{-x/\theta}^{x} \frac{e^{-x/\theta}}{h^{x}} = \frac{1}{x} \int_{-x/\theta}^{x} \frac{e^{-x/\theta}}{h^{x}}$ $f(x) = \frac{1}{x} \int_{-x/\theta}^{x} \frac{e^{-x/\theta}}{h^{x}} = \frac{1}{x} \int_{-x/\theta}^{x} \frac{e^{-x/\theta}}{h^{x}}$ $f(x) = \frac{1}{x} \int_{-x/\theta}^{x} \frac{e^{-x/\theta}}{h^{x}} = \frac{1}{x} \int_{-x/\theta}^{x} \frac{e^{-x/\theta}}{h^{x}}$ $f(x) = \frac{1}{x} \int_{-x/\theta}^{x} \frac{e^{-x/\theta}}{h^{x}} = \frac{1}{x} \int_{-x/\theta}^{x} \frac{e^{-x/\theta}}{h^{x}}$ $f(x) = \frac{1}{x} \int_{-x/\theta}^{x} \frac{e^{-x/\theta}}{h^{x}} = \frac{1}{x} \int_{-x/\theta}^{x} \frac{e^{-x/\theta}}{h^{x}}$ $f(x) = \frac{1}{x} \int_{-x/\theta}^{x} \frac{e^{-x/\theta}}{h^{x}} = \frac{1}{x} \int_{-x/\theta}^{x} \frac{e^{-x/\theta}}{h^{x}}$ $f(x) = \frac{1}{x} \int_{-x/\theta}^{x} \frac{e^{-x/\theta}}{h^{x}} = \frac{1}{x} \int_{-x/\theta}^{x} \frac{e^{-x/\theta}}{h^{x}}$ $f(x) = \frac{1}{x} \int_{-x/\theta}^{x} \frac{e^{-x/\theta}}{h^{x}} = \frac{1}{x} \int_{-x/\theta}^{x} \frac{e^{-x/\theta}}{h^{x}}$ $f(x) = \frac{1}{x} \int_{-x/\theta}^{x} \frac{e^{-x/\theta}}{h^{x}} = \frac{1}{x} \int_{-x/\theta}^{x} \frac{e^{-x/\theta}}{h^{x}}$ fix = https://powcoder.com

Exacise 2

$$F_{\gamma}(y) = P(\gamma \leq y) = P(C \times \leq y) = P(X \leq \frac{y}{c})$$

$$F_{\gamma}(y) = F_{\chi}(\frac{y}{c})$$

$$F_{\gamma}(y) = \frac{1}{c} f_{\chi}(\frac{y}{c})$$

$$f_{\gamma}(y) = \frac{1}{c} \frac{(\frac{y}{c})}{\Gamma(\alpha)} \frac{e}{e^{-1}}$$

Assignment Project Exam Help

https://powcoder.com

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EXCRCISE 3

$$EX^{k} = \int_{0}^{\infty} \frac{x_{+k-1}}{\Gamma(x)} e^{-x/\theta} dx = \frac{1}{\Gamma(x)} \int_{0}^{\infty} x_{+k-1} e^{-x/\theta} dx$$

$$= \frac{\Gamma(x_{+k})}{\Gamma(x)} \int_{0}^{\infty} \frac{x_{+k-1}}{\Gamma(x_{+k})} e^{-x/\theta} dx = \frac{\Gamma(x_{+k})}{\Gamma(x_{+k})} e^{-x/\theta} dx$$

$$= \frac{\Gamma(x_{+k})}{\Gamma(x_{+k})} \int_{0}^{\infty} \frac{x_{+k-1}}{\Gamma(x_{+k})} e^{-x/\theta} dx = \frac{\Gamma(x_{+k})}{\Gamma(x_{+k})} e^{-x/\theta} dx$$

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$$= \frac{\Gamma(x_{+k})}{\Gamma(x_{+k})} \int_{0}^{\infty} \frac{x_{+k}}{\Gamma(x_{+k})} e^{-x/\theta}$$

EXERCISE 4:

$$Y \sim b(n,p)$$
 $P(x) = \binom{n}{x} p^{x} (p^{x})$

IN EXPONENTIAL FAMILY FORM:

 $P(x) = \binom{n}{x} (p^{x}) e^{x}$
 $P(x) = \binom{n}{x} (p^{x}) e^{x}$

Froject Exam Help

Fan STATEAdd Wethat powcoder

$$\frac{\partial^{2} h (H)^{2}}{\partial \rho^{2}} = -\frac{h}{(H)^{2}}$$

$$\frac{\partial^{2} h (H)^{2}}{\partial \rho^{2}} = \frac{-1 + 2\rho}{\rho^{2} (H)^{2}}$$

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