

3 (b)

Letting $X^n = (X_1, X_2, \dots, X_n)$ as random sample
from function, $f(x; \theta)$

$$\begin{aligned} \text{Given } \theta \pi &= -1 - \frac{1}{c} \log E \left\{ e^{E - \frac{c\theta}{X^n}} \right\} \\ &= EX^{(n)} < 0. \end{aligned}$$

For $\theta = x$, the distribution P with $f \max X_i$

$$\begin{aligned} x_g &= P f x_1 + x; x: x_n < x_g \\ &= \frac{(P f x_1 + x_g P. f x_2 + x_g + P f x_n < x_g)}{n+1} \\ &= d(x) = n X^{(n)} \end{aligned}$$