SPAB aso 10

(a)

$$f(x) \cdot \beta \exp(-\beta x) \quad x \geq 0$$
A) method-of-moments estimator for B using mean

mean  $\mu : \delta(\beta) : \frac{1}{\beta}, \quad \mu = \overline{x} = \frac{1}{\beta}, \sum_{i=1}^{n} X_i$ 

$$= \frac{1}{\lambda}$$
2) compute median, median-based estimator

median:  $0.5 \cdot \int_{-\infty}^{\pi} f(x) dx, \quad F(x) : -\exp(-\beta x)$  (\*c, cclit)

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(b)  $0.5 \cdot \int_{-\infty}^{\pi} f(x) dx, \quad F(x) : -\exp(-\beta x)$  (\*c, cclit)

(c)  $0.5 \cdot \int_{-\infty}^{\pi} f(x) dx, \quad F(x) : -\exp(-\beta x)$  (\*c, cclit)

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(e)  $0.5 \cdot \int_{-\infty}^{\pi} f(x) dx, \quad F(x) : -\exp(-\beta x)$ 

(f)  $0.5 \cdot \int_{-\infty}^{\pi} f(x) dx, \quad F(x) : -\exp(-\beta x)$ 

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