QUIZ 6 SOLUTIONS

EXERCISE 1:

$$P(D_2)H_3 = P(D_2)H_3 = P(D_2)H_3$$

Expecise 2

X: ~ exp(
$$\frac{1}{i\theta}$$
) $\rightarrow M_{Xi}(t) = (1-i\theta t)'$

Let $\hat{\theta} = \frac{2}{i\pi} \sum_{i=1}^{Ki} N_{i}i$
 $M_{\hat{\theta}}(t) = M_{Xi}(t), M_{Xi}(t) = \dots, M_{Xi}(t)$

$$= \bigcap_{x_{1}} (t_{n}) \cdot \bigcap_$$

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S = Eô' - & = o(n-1)

Example 3:

(a),
$$E = \frac{1}{2} = \frac{1$$

(c), x1,--, xn i'ld N(p, o) EXTH, MR(X) TE AS N -SO MR (X) -SO 1. X IS COMISSEM FETTMATION OF OF. KII ~~ X4 ARK NOT (MORPENDENT: Assignment Project Exam Help

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Add WeChat powcoder $= \int_{N} \left(NO^{2} + N(N-1) po^{2} \right)$ = 02 (1 + (n-1) P) AS $N \rightarrow \infty$ $MR(x) \rightarrow po^{n}$ $\therefore x \sim max consistent$ ESTIMATOR OF M.