Chapter 3

However
$$\mathbb{E}[g(7)] = 0 \Rightarrow g(7) = 0$$

For example, if $x_1 = x_1 =$

Tis the unvit of
$$\delta$$

Chapter 6.

1. 0 9(x)=
$$e^{x}$$
 9'(x)= e^{x} $\sim AN(e^{A}, n^{-1}(e^{2A}) 6^{2})$

$$\begin{array}{ll}
\Theta & \varphi(x) = M|\overline{x}| \\
\varphi'(x) = \frac{J\varphi(x)}{\partial |x|} \cdot \frac{J|x|}{\partial x} = \frac{1}{|x|} (\pm 1) \\
\varphi'(\mu)^2 = \frac{1}{|\mu|^2}
\end{array}$$

6.
$$\mu = NP$$

$$P = \frac{M}{n}$$

$$B^{2} = NP(1-P) = n \cdot \frac{M}{n}(1 - \frac{M}{n}) = \frac{1}{n}M(n-M)$$

$$(q'|M) = \frac{n}{n}M(n-M) = 0$$

$$q'(M) = \frac{n}{n}M(n-M)$$

$$q'(M) = \frac{n}{n}M(n-M)$$

$$g(x) = \int g'(x) \cdot dx = In \int \int u(x-u) dx$$

= -2 \in \sin' \sin-\mu,
\: $g(t) = -2 \sin \cdot \sin^{-1} \sin^{-1}$

Section 7.7

1. from. the 2, optimal property of the nuclian.

س ځی

1x-m) & #(x-m)

A | x-m | 2 & To | x-m 2 = 62

VI By Tensen's mequality

| EX- In | 2.

| M - M | E

11 |m-M| 2

(|m-n| 2 6 62

lm-µ1 ≤ 6.

070.