BHC = = n -1

$$4(x,0) = \begin{cases} 4x^3 & x \in E0; 0 \\ 0, and ee \end{cases}$$

$$E(X) = \begin{cases} \frac{4X^4}{64} = \frac{4X^5}{564} \begin{vmatrix} \theta = \frac{4}{5} \theta & \sqrt{X} = 2 \end{cases} \hat{\theta} = \frac{3}{5} \vec{X}$$

a)
$$\theta = \overline{X} - \alpha u e u$$
 Oyenka

(6)
$$\vec{y} = \vec{x}$$
 recuery, $\vec{m} \cdot \vec{k} \in (\vec{y}) = \vec{E}(\vec{x}) = \vec{E}(\vec{x}) = \frac{\vec{n} \cdot \vec{E}(\vec{x})}{n} = \frac{\vec{n} \cdot \vec{E}(\vec{x}$

$$Var(X) = E(X^2) - E^2(X)$$

$$E(x^{2}) = \int_{0}^{6} \frac{4x^{5}}{64} = \frac{2x^{6}}{304} \Big|_{0}^{\theta} = \frac{2}{3} 6^{2}$$

$$E(X^{2}) = \int_{0}^{0} \frac{4X^{5}}{64} = \frac{2}{3} \frac{X^{6}}{64} \Big|_{0}^{0} = \frac{2}{3} \theta^{2}$$

$$Var(X) = \frac{2}{3} \Theta^2 - \frac{16}{25} \Theta^2 = \frac{2}{75} \Theta^2$$

$$\widehat{O}_{h} = \underbrace{5n+3}_{4n-2} \times \underbrace{\times n}_{n\rightarrow\infty}$$

$$E(\hat{\partial}_{n}) = \frac{5}{\sqrt{2}} = 0$$

$$Var(\theta n) = \frac{5n+3}{4n-2}^{2} \cdot \frac{Var(x)}{n} = 0$$

$$h \to \infty \quad 1$$