

T_1

$$\textcircled{2} \quad z = \frac{n+1}{n} x_{\max}$$

$$0 \xrightarrow{\infty \leftarrow n} (3 \approx |Q| - |Q|^2) \quad \exists A \quad 0 < Q A$$

$$P\left(\left|\frac{n+1}{n} x_{\max} - \theta\right| \geq \varepsilon\right) = P\left(x_{\max} > \frac{(\theta + \varepsilon)n}{n+1}\right) +$$

$$+ P\left(x_{\max} < \frac{(Q-\varepsilon)n}{n+1}\right) + P\left(x_{\max} = \frac{(Q+\varepsilon)n}{n+1}\right) =$$

$$= 1 - \left(F\left(\frac{(0+\varepsilon)n}{n+1}\right) \right)^n + \left(F\left(\frac{(0-\varepsilon)n}{n+1}\right) \right)^n \xrightarrow{n \rightarrow \infty} 0$$

$$\textcircled{1} \xrightarrow{n \rightarrow \infty} 1$$

$$\textcircled{2} = \left(\frac{n}{n+1} \left(1 - \frac{\theta}{\varepsilon} \right) \right)^n \xrightarrow{n \rightarrow \infty} 0$$

$$\Rightarrow \quad \forall \varepsilon > 0 \quad \exists A > 0 \quad \forall n > A \quad \rho(\theta_3^2, \theta) \geq \varepsilon \xrightarrow{n \rightarrow \infty} 0$$

$$\Rightarrow \theta_3^2 - \infty.$$