







$$X_1 \dots X_n \stackrel{\text{Tid}}{\sim} (A) y \cdot 0$$

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$$\overline{1}=1...$$
 n.
 $E[X_{\overline{1}}]=M.$ $V[X_{\overline{1}}]=\sigma^{2}.$
(2) $X_{1}...$ X_{n} indep.

$$E[X] = E\left[\frac{\sum_{i=1}^{n} X_{i}}{n}\right]$$

$$\frac{\partial}{\partial x} \left(\frac{\partial x}{\partial x} \right) = \frac{\partial^2 x}{\partial x^2} = \mathcal{M}$$

$$=\frac{1}{n} \ \text{E[$\frac{1}{2}$X_{1}$]} = \frac{1}{n} \ \text{E[$\frac{1}{2}$X_{1}$]} = \frac{1}{n} \ \text{E[$\frac{1}{2}$X_{2}$]} = \frac{1}{n} \ \text{E[$\frac{1}{2}$X_{2}X_{2}]} = \frac{1}{n} \ \text{E[$\frac{1}{2}$X_{2}X_{2}]} = \frac{1}{n} \ \text{E[$\frac{1}{2}$X_$$

$$V[X] = V[\underbrace{\sum_{i=1}^{N} X_i}] = \frac{1}{N^2} V[\underbrace{\sum_{i=1}^{N} X_i}] = \frac{1}{N^2} \underbrace{V[X_i]} = \underbrace{N^2} \underbrace{\binom{n}{N}}_{N}$$

$$\underbrace{N[X] = V[\underbrace{\sum_{i=1}^{N} X_i}]}_{N_{N}} = \underbrace{N^2}_{N_{N}} \underbrace{\binom{n}{N}}_{N_{N}}$$





