hamb Thurson andrel Normal Der Workstone (N/CA) Standard revisited Normal Dist: f(x)=1 e (x-h) N(4,0), -00< x<0 Standard N.D. N(0,1) Note: (1)

The function f(1) is not close

the probability P(a < x < b) = I findox is a valuated numerically

Such tables are stondard atomal Didnbution tobbo (2 m N(0,1)). In table has entries of $f_2(3) = \frac{1}{\sqrt{2\pi}} \int_{-\infty}^{2\pi} e^{-\frac{\pi}{4}} dt$ = P(2=3)2. store or Zees core P(a For a non- Standardized norma) distribution the variable 3 is given by 3=(9-11)/0 @ P(a 5 2 5 b) = F(b) - F(a) 3). Ne Nave # [-3] = 1- [3) Symetic Propuly. -- Jable is only made for 3 20. (4) · For non- studend dist (3) = P(253) = P(x-4 53) = P(XSA+30)

P

Ex let
$$x_1, x_2 \dots x_n$$
 be s.t.

 $M' = \mathcal{E}[x_i] = M \mathcal{L}$
 $\sigma_i^2 = \text{Ef} \ \mathcal{V}[x_i] = \sigma_i^2$

Then

 $\overline{I}_n = \begin{bmatrix} \sum Mx_i - \sum M \\ i - i \end{bmatrix}$
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 $\overline{I}_n = \begin{bmatrix} \sum Mx_i - \sum M \\ i - i \end{bmatrix}$
 $\overline{I}_n = \begin{bmatrix} \sum Mx_i - Mx_i \\ Mx_i - Mx_i \end{bmatrix}$
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 $\overline{I}_n = \begin{bmatrix} \sum Mx_i - Mx_i \\ Mx_i - Mx_i \end{bmatrix}$

Where \overline{X} is sample means

Note $\overline{X}_n = X_n - X_n$

Im' eventhally represents the Rur I'm memo that no matter what is the type of shiphing of X1, X2,

... In the n.v. X = X1 + X2 + -- + Xm

com be approximated by a standardy normal distribution.