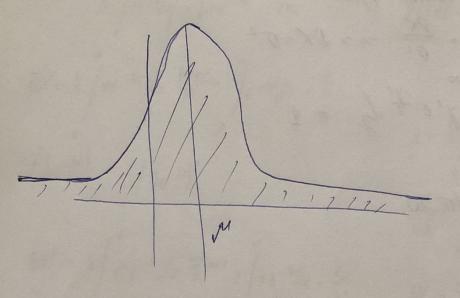
6/ Hopmanno paynpegenennes

$$X \sim N(\mu, G^2) \quad \text{melk}$$
 $G^2 = 0$ 

Ano  $\int_X (x) = \frac{1}{G\sqrt{2\pi}} e^{-\frac{(x-\mu)^2}{2G^2}} \quad \forall x \in \mathbb{R}$ 



$$\frac{1}{0\sqrt{2\pi}}\int_{-\infty}^{\infty}e^{\frac{fx-yy}^2}\frac{e^{-\frac{fx-yy}^2}}{2\sigma^2}dx=1$$

$$f_{X}(x) = \frac{1}{CC\pi} \int_{-\infty}^{\infty} e^{-\frac{k-\mu y^2}{2C^2}} dx$$

 $X \sim N(M, G^2)$ , aso  $Y = \frac{X-M}{\sigma} \sim N(0, 1)$  u ce kapina ousongapino nopriames papie.  $g(x) = \frac{X-M}{\sigma} + 1$  h(y) = Gy + M

$$h'y = \sigma$$

$$f(y) = \frac{1}{\sigma \sqrt{\pi}} e^{-\frac{(\sigma y + M - M)^2}{2\sigma^2}} \qquad \sigma = \frac{1}{\sqrt{2\pi}} e^{-\frac{y^2}{2}} \qquad \forall y \in (\infty, \infty)$$

21