





Z~N(0,1) X= u+0Z Fx(x) = P(X \le x) = P(u+0Z \le x) = P(Z \le \frac{x-u}{\sigma}) = F\_2 (\frac{x-u}{\sigma}) fx(x)= Fx(x)= dx Fz(x-n)  $=\frac{1}{\sigma}f_2\left(\frac{x-u}{\sigma}\right)=\frac{1}{\sigma}\int_{\sqrt{2\pi}}^{\pi}e^{-\left(\frac{x-u}{\sigma}\right)^2}$ X~N(11,02) = 1 0-202 (Y-11) 2 11 normal11 E(x) = E[u+oZ] = u+oE(Z)=u Var (X) = Var [u+0] = 02 Voi [7] = 02 SE[X]=0 SuppCXJ = 1/C parameter of E (0,00)

(X > 18) = P(X - 70) = P(X - 70) = P(X > 78 = 70) = P(X > 78) = 2.5%