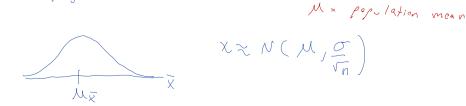
1) Central Limit Theorem The central limit theorem relies on the concept of a sampling distribution, which is the probability distribution of a statistic for a large number of samples taken from a population. The central limit theorem says that the sampling distribution of the mean will always be <mark>normally distributed</mark>, as long as the sample size is large enough. Regardless of the whether the population has a <mark>normal, Poisson, binomial</mark>, or any other <mark>distribution</mark>, or any other distribution, the sampling distribution of the mean will be normal. X & N(M, J) population Data n = sample size => any valve 51 = { X, , X2 , --- Xn} = X, 52 = { x = 1 x 8 , ... Xn } = \(\int Z \) Ú 53 Sampling distribution V.m -> Gaussian / Nirmel Distribution 2) × \$ n ≥ 30 => Sample NCM, O 1. mit Theorem Normal distribution $X \sim, N(\mu, \sigma)$ n = sample rize



Distribution of man

o = population std