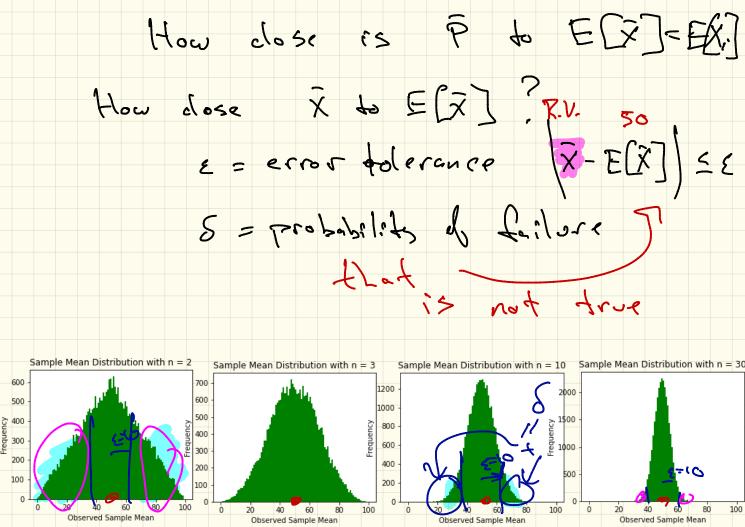
FoDA Central Limit L6

Data Set P={P, P3, ..., Pn} iid: Independently and Identically Distributed Polling: each Pi & c.11 & someono RV X 2 f = Somple P= 1 & P: P = {Pi} Ceclize {Xi} iid Teason unknown distribute,

Central Limit Theorem Zv. 4x1, x2, ,..., xn} X: 12 $\bar{\chi} = \frac{1}{n} \sum_{i=1}^{n} \chi_i$ another $v_i = v_i$ N=E[X:] De = Nor [X:] Moloo X converges to mormal distribute. M=E[x]=E[x:] Dor[x] = 52 N ques
larger
Var [x] smiller



P Colizadoun Probably Approximately
(orrect (PAC) Pr[X-E(x]) > & 2 Drobability

so tolerance failure Po[X ∈ [40,60]]eg. £=10

