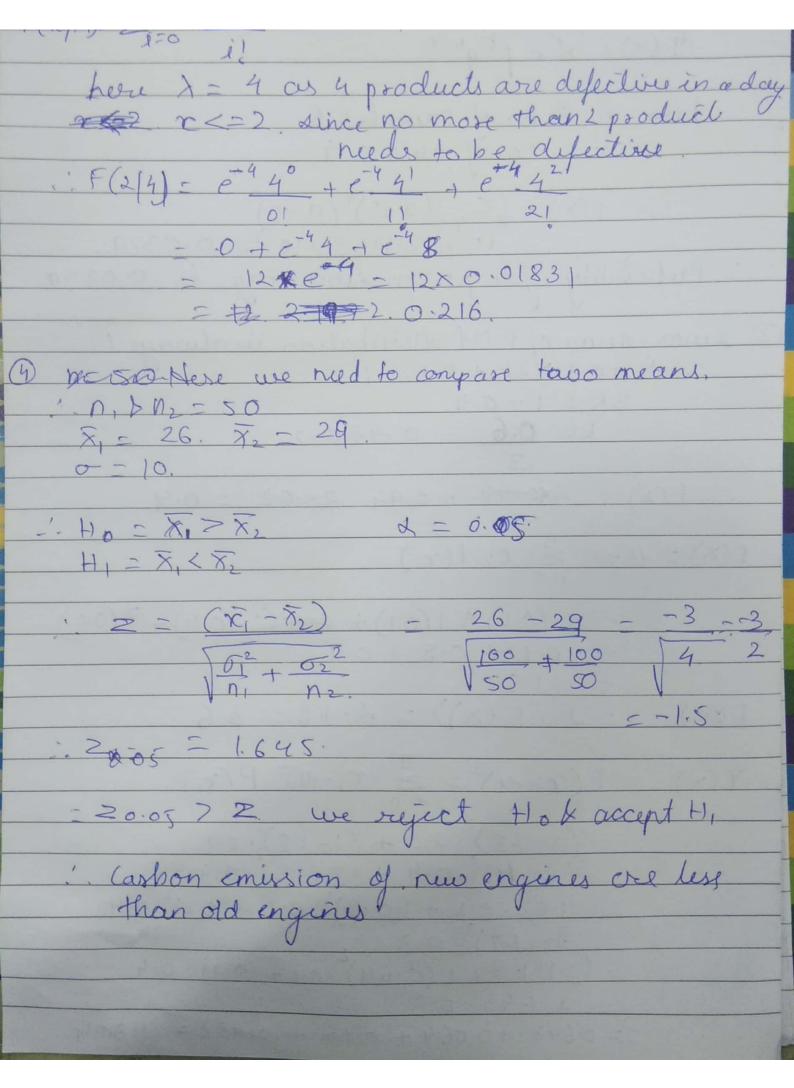
Lethnoth Pandy 01: Let p = foott where person will viccoves.

q = Ewhere person dies of descare = 0.95 Using binomical distribution $p(x) = p^{2}q^{-x}.$ here & no of sample = 6 r = no of toes = 4 $P(X) = \frac{C_4 (0.25)^4 (0.75)^2}{15 \times 2.1973 \times 10^{-3}} = 0.0329.$ · Probability of 4 person bearing is . 0.03 29. 2) dince sum of P.M.f distribution is always / 3K=1-0.4 K= 0.6 = 0-470.2 : F(2) = 2x0-47 = 0-94 2x.0.2 = 0.4 F(X) = U = & r; P(xi) - 0. (0.2) + 1 (0.1) + 0 - (2. (0.4) + 3 (0.3) - 0.1 + 0.8 + 0.9. = 2 (E(x)) = 2.1.8 = 3.6 $Y(x) = F(x-u)^2 = \frac{1}{2}(x_i-u)^2 P(x_i)$ $= \frac{(0-1.8)^2 \cdot 6 \cdot 2 + (1-1.8)^2 \cdot 6 \cdot 1}{(2-1.8)^2 \cdot 0 \cdot 4 + (3-1.8)^2 \cdot 0 \cdot 3}$ $= \frac{(-1.8)^2 \cdot 0 \cdot 2 + (-0.8)^2 \cdot 0 \cdot 1 + (0.2)^2 \cdot 0 \cdot 4}{(1.2)^2 \cdot 0 \cdot 3}$ $= \frac{(3.14) \cdot 0 \cdot 2 + (0.64)^2 \times 0 \cdot 1 + (0.4)^2 \cdot 0 \cdot 4}{(0.4)^2 \cdot 0 \cdot 2 + (0.64)^2 \times 0 \cdot 1 + (0.4)^2 \cdot 0 \cdot 4}$ + 1.44 1.6.3. = 6.648 + 0.069 + 0.16 + 6.432 = 1.304.



6 Population man de 10. Tto= 8. 0=3 Ens. Ho-cl = lo. +1= 11 + 110. i as sample dige is less than 30 we use thest = f = (x - 40) = 8-10 = -2 x (15-7.746 0/Vn 3/VI5 3 defree of fredom = 1-1= 14. · - (6.05, 14) = +2-15. dence -2.58 js beyond 2.15 we riject the allers dain of averag 10. 7. O. In simple random sampling we select the sample units randomly from the population. In simple vandom sampling the sample units should have a and probability of gelling relected. Since we hed to asked any unit from entire propulation gontine SRS is cumbirsome. for eg in case population is families in india sedecting forom entire (ountry will be a costly and rumlers one @ &a stratified dancipling we group the date based on some and property each strats, Stratified Lampling is les cambersone than sas.