20+21 (U.2) 1, (a) 20 (Mo. Go) Z: (Mi, Oi)

f(x; m, o) - of e 20 少常能 分布

F(X; M,G) = 0/27, 8 201 (0)

f (x) = x (x-1) x (24)

(9)

三 ( ) 135年

((+ 本)) ((+ 本)) ((+ 本)) = 1-4-1 山七分布 (a) st. norm. cdf (1,0,2) -) 0.6974

(b) St, norm. colf (1,6,1) =) D. S4 13

(c) St. norm. cdf (1, 0,2) 7 0.6914

(b) 80 (Mo, to) &\* (Mo(, to) = (0,1) + 常能与布

J (X M. D) = 1 4

3, (a) 已知了,以常能分佈計算 (mport scipy, state as st M = 65

8 16

X= 64

n= 25 5t. norm. df (X=X, loc=M, scale= of/hith 0.5)

3 0.0498

st. norm. cdf (x = xbar, loc = M, scale = o /nxx0.5) X bar = 64 29 = W 0

3 0.0478

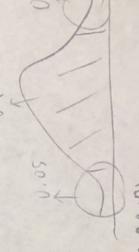
(c)  $P(XA \le X) = 0.05 \Rightarrow 2 \Rightarrow -1.645$ 

14-1 - 1,645 3/125 x=62,2583



(m X121/21/2) = 62.2583

Ph Xa-X2 = 1.645 3/25 = 1.645 \$ X2 = 69.9419



> (K, x2) = (62.2583,69.9419)