Leerne 12 10/20/15

# of equality configurations

[ # swarz # fuller V- Brown (6/p) := (2) px 1-x Flip 97 (oins P(374)? X ~ Bim (17, 1/2)  $p(X=37) = \binom{17}{47} \pm \binom{37}{4} \pm \binom{69}{4}$ Det Bb x on black. P(myg 52 tun) X~ Brom (86, 18)  $P(X=52) = \binom{66}{52} \binom{60}{30} 52 \binom{20}{30}^{34}$ 5000 Houses in Belle Honton Alteriare fled dange) = 1/120 P (1000 dom) & ? X ~ Brim (5000, 120) Wy my? 96,000 House he stefo 145 summe all our ole motor, Plank 17 M 12 n gran you) = = 1 X ~ Brum (96900, 250) My man

ica!!



If as first you don't succeed.

The Colorestic (p):= (1p) × 1  $p \in (0,1)$   $p = 0 \Rightarrow illegel$   $p = 1 \Rightarrow \log(1)$  stops similarly

Supple  $p = 1 \Rightarrow \log(1)$  stops similarly.

Supple  $p = 1 \Rightarrow \log(1)$  stops similarly.

When  $X_1, X_2 \stackrel{\text{det}}{\sim} \text{bendy}$  possibly africe sex v.v.y

We To my  $X_1, X_2 \stackrel{\text{det}}{\sim} \text{bendy}$   $X_1, X_2 \stackrel{\text{det}}{\sim} \text{constant}$   $X_1, X_2 \stackrel{\text{det}}{\sim} \text{bendy}$   $X_2 \stackrel{\text{det}}{\sim} \text{constant}$   $X_3 \stackrel{\text{det}}{\sim} \text{constant}$   $X_4 = 1$   $X_5 = 1$   $X_6 =$ 

 $P(\overline{z}=1) = p$   $P(\overline{z}=2) = (-p)p$   $Q(\overline{z}=3) = (-p)^{2}p$   $Q(\overline{z}$ 

P(T=x) = (1-p)x-1p = 2 1 Reps

E 0(8) = 1?

Nme 1-p = (0,1) sire p = (0,1)

les q:= 1-p

Egx Who is this? 1+9+92+93+94... Georgi Series"

let S= 1/49 +96+93+...

Converge? & 9x < Sax = 1x / 20 | lm 9x - 1) a) only comme if R</

= /+ 9 (1+9+92+93+---) 5=1+95

(1-9)5=1 => 5= 1-9

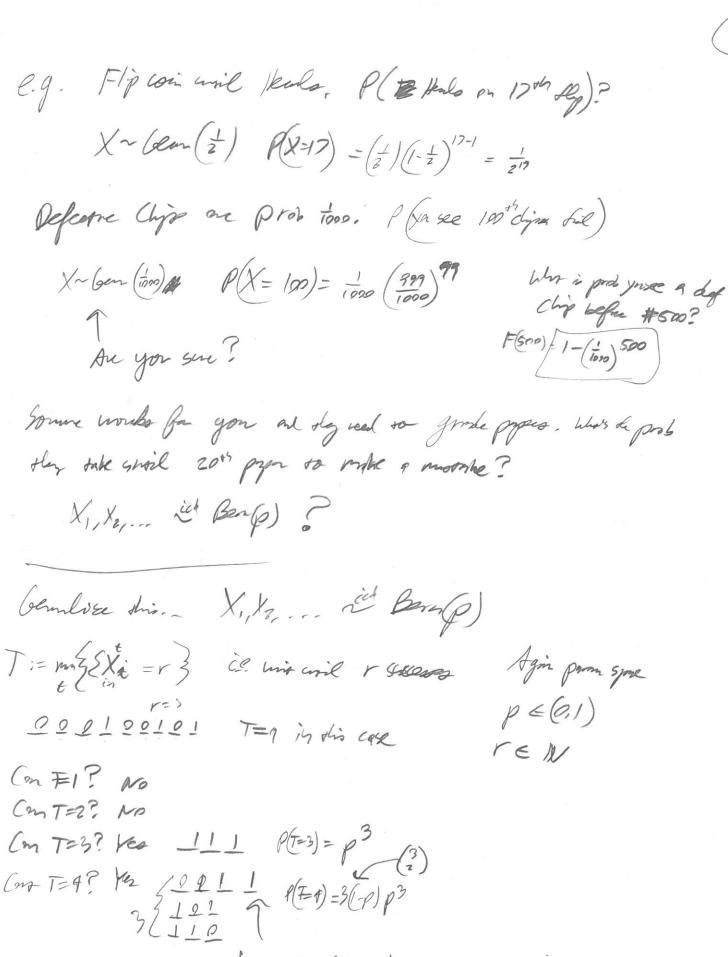
F(x) := P(X = x) = Sa-pi-1p HARD.

or P(X=x)=1-P(X>x) by captain rule.  $P(X\in A)=1-P(X\in A^c)$ 

will not posse this ... downs ... if X>X all benulli only up with x are foods QQQ

=> F(x)=1- (1-p) X

Sonder) A



Syp(T) = {3,4,...}