9/8/15 Mark 29/ Lecon# 4 hors ohn page (12) 5 flows, 3 B, 2R 3!2! 5! Les gimes Le all pension of which itse ! 5! Les anna be glicabana priminame blose son-danna $P(Ris fra) = \frac{4}{5!} = \frac{4}{10} = \frac{3}{5}$ R (BRBD) 7 = \(\begin{align*} & $(2A) = 2^{|A|} = 2^{|A|}$ 3 (24=12 = 5 | £ B: B = A, |B|=i3 (9+6)3 = (9+6) (9+6) (9+6) = 93 +3926+3962+6? 2×2×2=8 erms (9+3) 4 495 25 tems 9+6) = (9+6) (n+b) = S(h) anibi (Bilmine Thm.)

$$(1+x)^{h} = \sum_{i=0}^{h} \frac{f(i)}{f(i)} \int_{1}^{h-i} x^{i} = \sum_{i=0}^{h} \frac{f(i)}{f(i)} x^{i}$$

$$= \begin{pmatrix} h \\ 0 \end{pmatrix} \times 0 + \sum_{i=1}^{i-1} \begin{pmatrix} h \\ i \end{pmatrix} \times i + \begin{pmatrix} h \\ h \end{pmatrix} \times h$$

$$= \begin{pmatrix} h \\ i \end{pmatrix} \times i + \begin{pmatrix} h \\ i \end{pmatrix}$$

$$= \underbrace{\sum_{i=0}^{n-1} \binom{n-1}{i}}_{i=0} \times i + \underbrace{\sum_{i=0}^{n-1} \binom{n-1}{i}}_{i=0} \times i + I$$

$$= \frac{h}{(i-1)} \cdot (h-1) \cdot \chi i$$

$$= \frac{h}{(i-1)} \cdot \chi i + \frac{h}{(i-1)} \cdot \chi i$$

$$= \frac{h}{(i-1)} \cdot \chi i + \frac{h}{(i-1)} \cdot \chi i$$

$$\Rightarrow i = i + 1$$

$$i = 0 \Leftrightarrow j = 1$$

$$i = 1 + 1$$

$$i = 0 \Leftrightarrow j = 1$$

$$i = 1 + 1$$

$$i = 1$$

$$+ \begin{pmatrix} h-1 \\ 0 \end{pmatrix} \times^{1} + \begin{pmatrix} h-1 \\ 1 \end{pmatrix} \times^{2} + \begin{pmatrix} h-1 \\ 1 \end{pmatrix} \times^{2} + \begin{pmatrix} h-1 \\ h-2 \end{pmatrix} \times^{2} + \begin{pmatrix} h-1 \\ h-2 \end{pmatrix} \times^{2} + \begin{pmatrix} h-1 \\ h-1 \end{pmatrix} \times^{1} + \begin{pmatrix}$$

Volgmid cool Buply => Colfsins

$$\vec{a} \cdot \vec{x} = 0$$
 $||x|| ||x|| ||x|$

$$= \frac{\binom{6}{i} - \binom{6-1}{i} + \binom{6-1}{i-1}}{\binom{6}{i} + \binom{6-1}{i}}$$

$$= \binom{6}{i} + \binom{6-1}{i} + \binom{6-1}{i-1}$$

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$$= \binom{6}{i} + \binom{6}$$

thus to Of #'s can be bill supply by addy to the His show it Pascal 15 1 15.10 (10) 5 /

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Strugt ber Some Suit

Charlesuis

19 String poss forsor

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+ are both to this in

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[5

D= { 544y, donly, ray, 5 nay } P34973 + + Fusher... I = {H,T} Don do I ever kun it's egolg hag?? P(2+3) = P(2+3) = { P Prophe its a bod assuption? Need a besser def, of prob! I Libining Fregory Of. lot I wet = { 1 if wet $P(A) := \lim_{h \to \infty} \frac{\sum_{i=1}^{n} \mathbb{1}_{w_i \in A}}{h} \text{ prop } f \text{ time } f \text{ even } A$ Others given many, my

Others of the process Problems process Obstaclasses we I and is it granted to be the same draw out the? Norma is productable? Norma works the same my all them?

(2) We have see h=00! So he orly get approx prohis PA) 2 Educt for n as large as to car afford (3) Wy des this lin converge? homes siles I'm suse des. (Com be prome if #1 is some) (Non youl! P (05 sypen yorly) ? Phys somm or 5 Pm, 4 11362)