A =
$$\bigcup A_j$$

 $A = \bigcup A_j$
 $P(A) = \lim_{n \to \infty} P(A_n)$
 $P(A) = \lim_{n \to \infty} P(A_n)$
Countable additivity property disjoint
 $B_1 = A_1$, $B_2 = A_2 - A_1$, ... of
 $B_j = A_j - A_{j-1}$, B_{j-1} , $B_$

unordered subsample of size r drawn collection with replacement from $\{1,2,\ldots,n\}$ 0 = k; = 92 (k1, k2, --, kn): 2 ki=8 Cardinality of this set is precisely the total number of unordered samples of 9 size 8. 3 (0,2,0) (1) (2,3), (3,3), (1,3), (3,1). $= \left[\frac{1}{2}, 0, 1 \right] = \left[K_1, K_2, K_3 \right]$

 $\left(1+\chi+\chi^2+\cdots+\chi^8\right)^{1/2} = \left(\frac{1-\chi^{1/2}}{1-\chi}\right)^{1/2}$ Find the co-efficient of x in this

polynomial - J -> that) gives the +xx)x(1+x+-(1)+ x+ x (1+x+--+x) zil.) ziz Wzin. 2 i, + iz+ - + (n. 1,+12+·+in

Amial sepuences
company
Amad T length n with exactly M H 28 Lounder any wEA(m) $\frac{1}{1} \left(\frac{2}{1} \right) = \frac{1}{1} \left(\frac{2}{1} \right)$ 9/5HH---H

 $P\left(A(m)\right)$ A(m) $X p^{m-m}$

Extension of NB to more than two ontcomes 6 fased die D keep on tossing die till 9 see (2) 3 syand 2 578

3 (3 15) 3 82 5 3 before Total either a

(3V5) (3V5) 3 P (# of trials is 5