

$$T_2 = \chi_1 + \chi_2$$
  
Supp [T] = 10,1,29

$$\chi_1$$
  $\chi_2$   $\chi_3$   $\chi_4$   $\chi_5$   $\chi_5$ 

$$P(x_1=0, x_2=0) = \frac{4}{9}$$
 $P(x_1=0, x_0=0) = \frac{4}{9}$ 
 $P(x_1=0, x_0=0) = \frac{1}{9}$ 
 $P(x_1=1, x_2=0) = \frac{1}{9}$ 

$$P (T_{3} = 0) = \begin{pmatrix} 3 \\ 3 \end{pmatrix} \begin{pmatrix} \frac{1}{3} \end{pmatrix}^{6} \begin{pmatrix} 2 \\ \frac{3}{3} \end{pmatrix}^{6}$$

$$P (T_{2} = 1) = \begin{pmatrix} 3 \\ \frac{3}{3} \end{pmatrix} \begin{pmatrix} \frac{1}{3} \end{pmatrix}^{2} \begin{pmatrix} \frac{2}{3} \\ \frac{3}{3} \end{pmatrix}^{6}$$

$$P (T_{3} = 3) \begin{pmatrix} \frac{3}{3} \end{pmatrix} \begin{pmatrix} \frac{1}{3} \end{pmatrix}^{3} \begin{pmatrix} \frac{2}{3} \end{pmatrix}^{6}$$

$$(\sqrt{3})^{1} (2/3)^{2}$$
 $(\sqrt{3})^{2} (2/3)^{3} \leftarrow 9$ 
 $(\sqrt{3})^{2} (2/3)^{3}$ 
 $(\sqrt{3})^{3} (2/3)^{3}$ 
 $(\sqrt{3})^{3} (2/3)^{3}$ 

Suppl tn 3 = 20, 1,2, ... ny

Suppliful = 
$$\frac{20}{1}$$
,  $\frac{1}{2}$ ,  $\frac{1}{3}$ 

of the Bin (n,p) can be conceptualized by T= lim Hyper(n,p,N) infinite hyper N -> 60

 $T = Z \chi_{C}$  such that  $\chi_{1}, \chi_{2}, \dots \chi_{n} \sim Bern(p)$ 

$$P(X) = P(X = X) = (x) p^{x} (1-p)^{n-x}$$

$$F(X) = P(X = X) = (x) p^{x} (1-p)^{n-c}$$