modelos de probabilidad Discretas:

Binomial
$$(n,p)$$
 $9 = 1-p$

$$P[x=k] \binom{n}{k} p^k \cdot 9^{n-k} \binom{n}{k} = \frac{n!}{k! \cdot (n-k)!}$$

p(7,0'2)

Relación 5

(3) $B(n,P) \rightarrow B(12,0,05) q = 0.95$ $P[x7,2] \rightarrow 1-P[x51] = 1-0.8816 = 0.1184$ $P[n=2] \rightarrow 0.0988$

> me = media = n.p o = desviación típica = Vn.p.g

Poisson

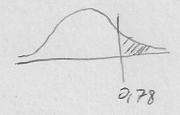
$$p(\lambda) = p(3)$$

$$P(x) = P(4)$$

CONTINUES

normal;

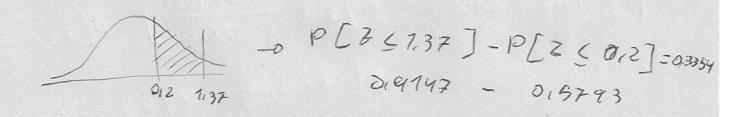
P[370,78] = 1 1- P[360,78] = 1-0,7823= = 0,2177



P[E = -7,82] = 1 - P[E = 7,82] = 1-09656

también se puede mirai la Tabla de negativas

P [212 586 7,37]



TI PIFICAL

P[X5 17] Z =
$$\frac{17-13}{6} - \frac{4}{6} = 0.6$$

P[Z \(\cdot 0.66] = 0, 74 \(\cdot \cdot \)

B (1000, 0,15) NO N(150, 17'29)

$$P[X7,125] = 8 = \frac{125-150}{11.9}; Z = \frac{-25}{71.29} = -2.21$$

P[25-2,21] = 010 735

Intervalos de confianza d = n ivel de confianza 7 - d = 90 d = 10% - 2/z = 0.05

[minimax]
$$\longrightarrow \frac{amplitud}{2} = error = \mathcal{E}$$

 $(\bar{x} - \mathcal{E}, \bar{x} + \mathcal{E})$

cuanto mas alto el nível de confianza menos amplio el intervalo

error

$$\frac{z}{z} = \frac{1+0.95}{2} = \frac{1.95}{2} = 0.975$$

$$en (1 + table norma)$$

$$IC = \left[P - z \right] = \sqrt{\frac{pq}{n}}, P + \frac{z}{2} \right] = \sqrt{\frac{eq}{n}}$$

$$inversamense = 1$$

Relación 7

$$\begin{cases} \ddot{x} = 20.75 \\ \ddot{x} = 20.75 \end{cases} \qquad \begin{cases} \ddot{x} - 7n - 1, 7 - 2\frac{5}{2\sqrt{1n}}, \ddot{x} + 7n - 1, 7 - 2\frac{5}{2\sqrt{1n}} \end{cases} \\ S = 7, 17 \\ C = 70.75 - 21365 \cdot \frac{2.72}{18}, 20.75 + 2.765 \cdot \frac{2.72}{18} \end{cases} \\ 1 - d = 0.95 \quad d_{2} = 0.925 \quad \left[78197, 22152 \right]$$

$$3$$

$$\frac{1}{16(02)} \left[\frac{(n-1)^{2}}{x^{2}}, \frac{(n-1)^{2}}{(n-1)^{2}}, \frac{(n-1)^{2}}{(n-1)^{2}} \right] = \left[\frac{(n-1)^{2}}{(n-1)^{2}}, \frac{(n-1)^{2}}{(n-1)^{2}},$$

$$1 - d = 0.9$$

$$2 = 0.1$$

$$2 = 0.13$$

$$1 - d = 0.93$$

$$1 - d = 0.93$$

(13)
$$\frac{1}{x}$$
 1: 1,001 cm $\frac{51 = 0,001 \text{ cm}}{52 = 0,002 \text{ cm}}$ $\frac{1-d}{958}$ $\frac{4}{3} = 0,005$ $\frac{4}{3} = 0,005$

$$[(1,007-995)-(2,043.2,5.10^{-6})]$$

 $\frac{\sigma_1}{\sigma_2^2} = \left[\frac{1}{Fn_{x-1}, n_{y-1}, 1-\frac{d}{2}}, \frac{S\kappa^2}{Sg^2}, Fn_{x-1}, n_{y-1}, 1-\frac{d}{2}, \frac{S\kappa^2}{Sg^2} \right]$ [1 (2,005) 2 (2,005) 3 (2,005) 3 (2,005) 3 comastes de hipótesis Bila recales The de Mo=M emlateral mun 2 Moch/Mo>M bilareas unitareas HIPÓTESIS nula Ho M=140 / MEMO M = MO MX=My / MX S My MXZMg Mt Mo MY MO MSMO
MX \$My MX SMY
MX SMY MX SMY Hopotesis alternativa Ha

4)

Ho = $M_0 = 11.2h$ es bilateral porque me
dice que la media es

H1 = $M_1 \neq 11.2$ ignal a un uslor d = 905 T = 2 N = 25 T = 70 T

t rab = 2,0 64

Prob = 7,0 64

MICHIES TABLES

91 = n-1