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| Medidas descriptivas de una distribu-  ner el primer exito. $g_*(x) = q^{x-1}p$   |   | WACIÓN ESTANDAR X:   
  | V VOI (M)  | $\mathcal{G}_{\mathbf{x}}^{(\mathbf{x})} = P(\mathbf{x} = \mathbf{x}) = \mathbf{x}$  | A+DJ= O=VOr(X)   
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  | $= \sum_{p(x)} \times g_{x}(x)$ $= \sum_$ | $g_{*}(x) = q^{x-1} p$ $g_{*}(x) = q^{x-1} p$ $p_{*}(x) = p_{*}(x) = q$ $M_{*}(t) = p_{*}(t) = q_{*}(t)$ $M_{*}(t) = q_{*}(t) = q_{*}(t)$ $M_{*}(t) = q_{*}(t)$ $M_{$ |
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  | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  | $\begin{array}{c} A \cdot G \times (\times) & B_1 \times G \\ A \cdot G \times (\times) & B_2 \times G \\$   | $\begin{array}{c} X \mathcal{G}_{\mathcal{R}}(x) & \text{BiMO} \\ E(x^2) - [E(x)]^2 & \text{BiMO} \\ X \mathcal{G}_{\mathcal{R}}(x) & \text{BiMO} \\ X \mathcal{G}_{$  
  | $ \begin{array}{c}                                     $   | $ \begin{array}{c} = \left( \begin{array}{c} \times f_{\ast}(\times) \\ \times f_{\ast}(\times) \end{array} \right) & \begin{array}{c} M_{\ast} \\ \times f_{\ast}(\times) \\ \end{array} \\ \begin{array}{c} R(\times) \\ \times f_{\ast}(\times) \end{array} \\ \begin{array}{c} R(\times) \\ \times f_{\ast}(\times) \\ \times f_{\ast}(\times) \\ \end{array} \\ \begin{array}{c} R(\times) \\ \times f_{\ast}(\times) \\ \times f_{\ast}(\times) \\ \times f_{\ast}(\times) \\ \end{array} \\ \begin{array}{c} R(\times) \\ \times f_{\ast}(\times) \\ \times f_{$ | $ \begin{array}{c}                                     $  | $ \begin{array}{c}                                     $  
   | $ \begin{array}{c}                                     $   | $ \begin{array}{c}                                     $   
  | $ \begin{array}{c}                                     $  | $F(x) = \begin{cases} x \cdot f(x) \times x \\ x \cdot f(x) \times x \\ x \cdot f(x) & \text{Bindo} \\ x \cdot f(x) & \text{Estandar} \\ x \cdot f(x)$ | $= \begin{cases} \times_{\mathcal{C}} (\times) \times (\times) & \text{Binto} \\ \times_{\mathcal{C}} (\times) \times (\times) & \text{Binto} \\ \times_{\mathcal{C}} (\times) & \text{Estandar} \\ \times_{\mathcal$ | $ \begin{array}{c}                                     $  
   | F(x) $F(x)$  | $ \begin{array}{c}                                     $  | ₹<br>×   
  | P  |
| $\sum_{P(\mathbf{x})} \times 9_{\mathbf{x}}(\mathbf{x}) = 1  \text{var}(\mathbf{x}) =$  | $\frac{x \cdot f(x)}{x} = \frac{1 - q_0 \cdot f(x)}{x}$ $\frac{x \cdot f(x)}{x} = \frac{1 - q_0 \cdot f(x)}{x}$ $\frac{x \cdot f(x)}{x} = \frac{1 - q_0 \cdot f(x)}{x}$ $\frac{x \cdot f(x)}{x} = \frac{1 - q_0 \cdot f(x)}{x}$ $\frac{x \cdot f(x)}{x} = \frac{1 - q_0 \cdot f(x)}{x}$ $\frac{x \cdot f(x)}{x} = \frac{1 - q_0 \cdot f(x)}{x}$ $\frac{f(x)}{x} = \frac{1 - q_0 \cdot f(x)}{x}$   | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  
  | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  | $\frac{1}{\sqrt{2}} \left( \frac{1}{\sqrt{2}} \right) = \frac{1}{\sqrt{2}} \left( \frac{1}{\sqrt{2}} \right) = \frac{1}$   | $\begin{array}{c} \times \emptyset_{\mathcal{K}}(x) & \text{BiMO} \\ \times \vdots & \times \vdots \\ \times \vdots & \times \vdots \\ \text{BiMO} \\ E(x^2) - [E(x)]^2 & \text{BiMO} \\ \times \vdots & \times \vdots \\ \times \vdots \\$ | $ \begin{array}{c} = \left[ \times f_{\%}(x) \right] & \text{BiMO} \\ \times f_{\%}(x) & \text{BiMO} \\ \times f_{\%$  | $ \begin{array}{c}                                     $  
  | $ \begin{array}{c}                                     $  | $ \begin{array}{c}                                     $  | $ \begin{array}{c}                                     $   
   | $= \left[ \times (f_*(x)) \right] $   | $= \left[ \times_{\mathbb{C}} \mathbb{R}^{(\kappa)} \times \mathbb{C} \right] \times \mathbb{C}^{(\kappa)} \times \mathbb{C}^$ | $ \begin{array}{c}                                     $   | $ \begin{array}{c}                                     $   | $= \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) \right] = \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) + \mathbb{D} \right] = \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) + \mathbb{D} \right] = \left[ \times_{\mathbb{C}} (\mathbb{R} \times
\mathbb{X}) \right]^{2}$ $= \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) - \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) + \mathbb{D} \right] \right] = \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) \right]^{2}$ $= \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) - \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) + \mathbb{D} \right] \right] = \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) + \mathbb{D} \right] = \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) + \mathbb{D} \right] = \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) + \mathbb{D} \right] = \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) + \mathbb{D} \right] = \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) + \mathbb{D} \right] = \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) + \mathbb{D} \right] = \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) + \mathbb{D} \right] = \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) + \mathbb{D} \right] = \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) + \mathbb{D} \right] = \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) + \mathbb{D} \right] = \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) + \mathbb{D} \right] = \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) + \mathbb{D} \right] = \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) + \mathbb{D} \right] = \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) + \mathbb{D} \right] = \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) + \mathbb{D} \right] = \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) + \mathbb{D} \right] = \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) + \mathbb{D} \right] = \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) + \mathbb{D} \right] = \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) + \mathbb{D} \right] = \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) + \mathbb{D} \right] = \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) + \mathbb{D} \right] = \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) + \mathbb{D} \right] = \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) + \mathbb{D} \right] = \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) + \mathbb{D} \right] = \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) + \mathbb{D} \right] = \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) + \mathbb{D} \right] = \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) + \mathbb{D} \right] = \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) + \mathbb{D} \right] = \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) + \mathbb{D} \right] = \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) + \mathbb{D} \right] = \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) + \mathbb{D} \right] = \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) + \mathbb{D} \right] = \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) + \mathbb{D} \right] = \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) + \mathbb{D} \right] = \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) + \mathbb{D} \right] = \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) + \mathbb{D} \right] = \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) + \mathbb{D} \right] = \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) + \mathbb{D} \right] = \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) + \mathbb{D} \right] = \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) + \mathbb{D} \right] = \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) + \mathbb{D} \right] = \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) + \mathbb{D} \right] = \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) + \mathbb{D} \right] = \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) + \mathbb{D} \right] = \left[ \times_{\mathbb{C}} (\mathbb{R} \times \mathbb{X}) + \mathbb{D} \right] = \left[ \times_{\mathbb{C}} ($ | $= \begin{cases} \times (f_{*}(x)) & \text{Bindo} \\ \times (f_{*}(x))$  | $\frac{1}{R}(x)$ $1$  |  
  | 4  |
| $\sum_{P(x)} \times 9_{\Re}(x) = 1  \text{var}(\Re) = 1$ $M_{\Re}(t) = P  \text{var}(\Re) = 1$  | $\begin{array}{cccccccccccccccccccccccccccccccccccc$  | $\begin{array}{cccccccccccccccccccccccccccccccccccc$   
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  | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  | $ \begin{array}{c}                                     $   
  | $E(x) = \begin{cases} x \cdot f(x) \times (x) & B_1 \land G_2 \\ x \cdot f(x) & G_2 \end{cases}$ $= \begin{cases} x \cdot f(x) \times (x) + f(x) \\ x \cdot f(x) & G_2 \end{cases}$ $= \begin{cases} x \cdot f(x) \times (x) \\ f(x) & G_2 \end{cases}$ $= \begin{cases} x \cdot f(x) \times (x) \\ f(x) & G_2 \end{cases}$ $= \begin{cases} x \cdot f(x) \times (x) \\ f(x) & G_2 \end{cases}$ $= \begin{cases} x \cdot f(x) \times (x) \\ f(x) & G_2 \end{cases}$ $= \begin{cases} x \cdot f(x) \times (x) \\ f(x) & G_2 \end{cases}$ $= \begin{cases} x \cdot f(x) \times (x) \\ f(x) & G_2 \end{cases}$ $= \begin{cases} x \cdot f(x) \times (x) \\ f(x) & G_2 \end{cases}$ $= \begin{cases} x \cdot f(x) \times (x) \\ f(x) & G_2 \end{cases}$ $= \begin{cases} x \cdot f(x) \times (x) \\ f(x) & G_2 \end{cases}$ $= \begin{cases} x \cdot f(x) \times (x) \\ f(x) & G_2 \end{cases}$ $= \begin{cases} x \cdot f(x) \times (x) \\ f(x) & G_2 \end{cases}$ $= \begin{cases} x \cdot f(x) \times (x) \\ f(x) & G_2 \end{cases}$ $= \begin{cases} x \cdot f(x) \times (x) \\ f(x) & G_2 \end{cases}$ $= \begin{cases} x \cdot f(x) \times (x) \\ f(x) & G_2 \end{cases}$ $= \begin{cases} x \cdot f(x) \times (x) \\ f(x) & G_2 \end{cases}$ $= \begin{cases} x \cdot f(x) \times (x) \\ f(x) & G_2 \end{cases}$ $= \begin{cases} x \cdot f(x) \times (x) \\ f(x) & G_2 \end{cases}$ $= \begin{cases} x \cdot f(x) \times (x) \\ f(x) & G_2 \end{cases}$ $= \begin{cases} x \cdot f(x) \times (x) \\ f(x) & G_2 \end{cases}$ $= \begin{cases} x \cdot f(x) \times (x) \\ f(x) & G_2 \end{cases}$ $= \begin{cases} x \cdot f(x) \times (x) \\ f(x) & G_2 \end{cases}$ $= \begin{cases} x \cdot f(x) \times (x) \\ f(x) & G_2 \end{cases}$ $= \begin{cases} x \cdot f(x) \times (x) \\ f(x) & G_2 \end{cases}$ $= \begin{cases} x \cdot f(x) \times (x) \\ f(x) & G_2 \end{cases}$ $= \begin{cases} x \cdot f(x) \times (x) \\ f(x) & G_2 \end{cases}$ $= \begin{cases} x \cdot f(x) & G_2 \\ f(x) & G_2 $   | E(x) $E(x)$  | $E(x) = \begin{cases} x \cdot f(x) \times x \\ x + b \Rightarrow E(x) = aE(x) + b \end{cases}$ $E(x) = (x^2) - (E(x))^2$ $E(x) = (x^2) - (E(x))^2$ $(x) = (x^2) - (x^2) - (x^2)$ $(x) = $   
  | $ \begin{array}{c}                                     $  | $ \begin{array}{c}                                     $   | E(x) $E(x)$  | $E(x)$ $E(x)$ $AS$ $X+b \rightarrow E(y) = aE(x)+b$ $E(x)$ $Ya$ $Ya$ $Ya$ $Ya$ $Ya$ $Ya$ $Ya$ $Ya$   
  | $\begin{array}{c} = \left( \times G \times (\times) \right) & \text{Bibliomagnetic forms} \\ = \left( \times G \times (\times) \right) & \text{Bibliomagnetic forms} \\ = \left( \times G \times (\times) \right) & \text{Bibliomagnetic forms} \\ \times (\times (\times) \times (\times) \times (\times) \times (\times) \\ \times (\times (\times) \times (\times) \times (\times) \times (\times) \\ \times (\times (\times) \times (\times) \times (\times) \times (\times) \\ \times (\times (\times) \times (\times) \times (\times) \times (\times) \\ \times (\times (\times) \times (\times) \times (\times) \times (\times) \\ \times (\times (\times) \times (\times) \times (\times) \times (\times) \\ \times (\times (\times) \times (\times) \times (\times) \times (\times) \\ \times (\times (\times) \times (\times) \times (\times) \times (\times) \\ \times (\times (\times) \times (\times) \times (\times) \times (\times) \\ \times (\times (\times) \times (\times) \times (\times) \times (\times) \\ \times (\times (\times) \times (\times) \times (\times) \times (\times) \\ \times (\times (\times) \times (\times) \times (\times) \times (\times) \times (\times) \\ \times (\times (\times) \times (\times) \times (\times) \times (\times) \times (\times) \\ \times (\times (\times) \times (\times) \times (\times) \times (\times) \times (\times) \\ \times (\times (\times) \times (\times) \times (\times) \times (\times) \times (\times) \\ \times (\times (\times) \times (\times) \times (\times) \times (\times) \times (\times) \\ \times (\times (\times) \times (\times) \times (\times) \times (\times) \times (\times) \\ \times (\times (\times) \times (\times) \times (\times) \times (\times) \times (\times) \\ \times (\times (\times) \times (\times) \times (\times) \times (\times) \times (\times) \\ \times (\times (\times) \times (\times) \times (\times) \times (\times) \times (\times) \\ \times (\times (\times) \times (\times) \times (\times) \times (\times) \times (\times) \\ \times (\times (\times) \times (\times) \times (\times) \times (\times) \times (\times) \\ \times (\times (\times) \times (\times) \times (\times) \times (\times) \times (\times) \\ \times (\times (\times) \times (\times) \times (\times) \times (\times) \times (\times) \\ \times (\times (\times) \times (\times) \times (\times) \times (\times) \times (\times) \\ \times (\times (\times) \times (\times) \times (\times) \times (\times) \times (\times) \\ \times (\times (\times) \times (\times) \times (\times) \times (\times) \times (\times) \\ \times (\times (\times) \times (\times) \times (\times) \times (\times) \times (\times) \\ \times (\times (\times) \times (\times) \times (\times) \times (\times) \times (\times) \\ \times (\times (\times) \times (\times) \times (\times) \times (\times) \times (\times) \\ \times (\times (\times) \times (\times) \times (\times) \times (\times) \times (\times) \\ \times (\times (\times) \times (\times) \times (\times) \times (\times) \times (\times) \\ \times (\times (\times) \times (\times) \times (\times) \times (\times) \times (\times) \\ \times (\times (\times) \times (\times) \times (\times) \times (\times) \times (\times) \\ \times (\times (\times) \times (\times) \times (\times) \times (\times) \times (\times) \\ \times (\times (\times) \times (\times) \times (\times) \times (\times) \times (\times) \\ \times (\times (\times) \times (\times) \times (\times) \times (\times) \times (\times) \\ \times (\times (\times) \times (\times) \times (\times) \times (\times) \times (\times) \\ \times (\times (\times) \times (\times) \times (\times) \times (\times) \times (\times) \\ \times (\times (\times) \times (\times) \times (\times) \times (\times) \times (\times) \\ \times (\times (\times) \times (\times) \times (\times) \times (\times) \times (\times) \\ \times (\times (\times) \times (\times) \times (\times) \times (\times) \times (\times) \times (\times) \\ \times (\times (\times) \times (\times) \times (\times) \times (\times) \times (\times) \times (\times) \times (\times) \\ \times (\times (\times) \times (\times) \times (\times) \times (\times) \times (\times) \times (\times) \times (\times) \\ \times (\times (\times) \times (\times$ | $\begin{array}{c} = \left[ \times_{0} \times_{0} \times (\times) \right] & \text{Biblio} \\ = \left[ \times_{0} \times_{0} \times (\times) \right] & \text{GE}(\times) + b & \text{GE}(\times) \\ \times_{0} \times_{0} \times_{0} \times_{0} \times_{0} \times_{0} \\ \times_{0} \times_{0} \times_{0} \times_{0} \times_{0} \times_{0} \times_{0} \\ \times_{0} \times_{0} \times_{0} \times_{0} \times_{0} \times_{0} \times_{0} \times_{0} \\ \times_{0} \times_{0} \times_{0} \times_{0} \times_{0} \times_{0} \times_{0} \times_{0} \times_{0} \\ \times_{0} \\ \times_{0} \times_{$  
   | COOL  | -  |
| $\sum_{\mathbf{r}(\mathbf{x})} \mathbf{g}_{\mathbf{x}}(\mathbf{x}) = \sum_{\mathbf{r}(\mathbf{x})} \mathbf{g}_{\mathbf{x}}(\mathbf{x}) = \sum_{\mathbf{r}(\mathbf{x})}$ | $\begin{array}{cccccccccccccccccccccccccccccccccccc$  | $\begin{array}{cccccccccccccccccccccccccccccccccccc$  | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  
   | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  | $E(x) = E(y) = 0E(x) + b$ $E(x) = E(x) = E(x)$ $E(x^2) = E(x) = E(x)$ $E(x^2) = E(x) = E(x)$ $E(x^2) = E(x) = E(x)$ $E(x) = E(x$  | $AS$ $AS$ $X+b \rightarrow E(YI) = 0E(x) + b$ $E(x)$ $X+b \rightarrow E(XI) = 0E(x) + b$ $E(x)$ $X+D \rightarrow E(x) - E(x)$ $YOU$  
   | $AS$ $AS$ $X+b \rightarrow E(Y) = aE(x) + b$ $E(x)$ $Ya$ $Ya$ $Ya$ $Ya$ $Ya$ $Ya$ $Ya$ $Ya$  | AS $AS \rightarrow E(Y) = aE(x) + b$ $Ya$ $YA \rightarrow E(Y) = aE(x) + b$ $Ya$ $Ya$ $Ya$ $Ya$ $Ya$ $Ya$ $Ya$ $Ya$   | $AS = \frac{AS}{X+b} \rightarrow E(Y_I) = \alpha E(X_I) + b$ $E(X_I) = \frac{AS}{X+b} \rightarrow \frac{AS}{X+b} = \frac{AS}{AS} - \frac{AS}{AS} -$  
  | AS $AS \rightarrow E(Y) = aE(x) + b$ $E(x) \rightarrow E(Y) = aE(x) + b$ $E(x) \rightarrow E(x) \rightarrow E(x) \rightarrow E(x)$ $AS \rightarrow$ | AS $ \begin{array}{ccccccccccccccccccccccccccccccccccc$   | AS $ \begin{array}{ccccccccccccccccccccccccccccccccccc$   | AS $ \begin{array}{c} AS \\ X+b & \rightarrow E(Y) = aE(X) + b \\ Y & Y \\ Y &$  
                    | AS $x+b \rightarrow E(y) = aE(x) + b$ $E(x) = aE(x) + b$ $AS$ $AS$ $AS$ $AS$ $AS$ $AS$ $AS$ $AS$  | AS $ \begin{array}{c} AS \\ X + b \rightarrow E(y) = aE(x) + b \\ E(x) \\ AS \\ C(x) = E(x^2) - [E(x)]^2 \end{array} $ $ \begin{array}{c} Bino \\ Var(x) \\ Var(x) \end{array} $ $ \begin{array}{c} AS \\ AS \\$  | AS $x + b \rightarrow E(y) = aE(x) + b$ $E(x)$ $y = E(x^2) - [E(x)]^2$ $x + b = a^2 var(x)$ $x + b = a$   | AS $ \begin{array}{c}                                     $  
  | ×   | BINOMIAL   |
| $\sum_{P(x)} \times g_{x}(x) $  | $g_*(x) = P(x = x) = \begin{cases} 0 \\ 0 \\ 0 \\ 0 \end{cases}$ $F(x) = 0$ $F($ | $Q_*(x) = P(*=x) = \begin{cases} 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{cases}$ $= \begin{cases} 0 \end{cases}$ $= \begin{cases} 0 \\ 0 \end{cases}$ $= \begin{cases} 0 \end{cases}$ | $g_*$ $- E(y) = aE(*) + b$ $E(x)$ $(*2) - [E(x)]^2$ $g_*$ $Var$ $(*2) - [E(x)]^2$ $g_*$ $Var$ $(*2) - [E(x)]^2$ $g_*$ $Var$ $(*2) - [E(x)]^2$ $g_*$  | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  | $g_*$ $b \rightarrow E(y) = aE(*) + b$ $E(x)$ $A$ $E(x^2) - [E(x)]^2$ $B_{1NO}$ $X = x^2 + x^$   
  | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$   
  | $AS$ $X + b \rightarrow E(y) = aE(x) + b$ $E(x)$ $X + b \rightarrow E(y) = aE(x) + b$ $E(x)$ $X + b \rightarrow E(y) = aE(x) + b$ $E(x)$ $Yar(x)$ $Yar(x)$ $X + b \rightarrow E(y) = aE(x) + b$ $E(x)$ $Yar(x)$ $Ya$ $Ya$ $Ya$ $Ya$   | $AS$ $AS$ $X + b \rightarrow E(y) = aE(x) + b$ $E(x)$ $AS$ $AS$ $Var(x)$ $AS$ $AS$ $AS$ $AS$ $AS$ $AS$ $AS$ $AS$  | AS. $AS.$ $X+b \rightarrow E(y) = aE(x)+b$ $E(x)$ $Ya$ $Ya$ $Ya$ $Ya$ $Ya$ $X+b) = a^{2}ya$ $X+b) = a^{2}ya$ $X+b = a^{2}ya$ $Ya$ $Ya$ $Ya$ $Ya$ $Ya$ $Ya$ $Ya$  
   | $AS$ $X + b \rightarrow E(y) = aE(x) + b$ $E(x)$ $Ya$ $Ya$ $Ya$ $Ya$ $Ya$ $Ya$ $Ya$ $Ya$  | $AS$ $AS$ $X+b \rightarrow E(y) = aE(x)+b$ $E(x)$ $Ya$ $Ya$ $Ya$ $X+b \rightarrow E(y) = aE(x)$ $Ya$ $Ya$ $X+b \rightarrow E(y) = aE(x)$ $Ya$ $Ya$ $Ab$ $Ab$ $Ab$ $Ab$ $Ab$ $Ab$ $Ab$ $Ab$  
   | AS.  AS. $(x) = E(x) = aE(x) + b$ $(x) = E(x) = aE(x) + b$ $(x) = E(x) = aE(x) = a$  | AS. $X+b \rightarrow E(y) = aE(x) + b$ $E(x)$ $Y = E(x) - [E(x)]^2$ $Y = E(x) - [E(x)]^2$ $X = $   | AS.  AS. $(x) = E(x) = aE(x) + b$ $(x) = A(x) = aE(x) + b$ $(x) = $   | AS: $x + b \rightarrow E(y) = aE(x) + b$ $E(x)$ $x + b \rightarrow E(y) = aE(x) + b$ $E(x)$ $y = E(x) = (x) - (x)$ $x + b = (x) - (x)$ $x + b = a = 2 \text{ Var}(x)$ $x + b = a = $  
  | AS.  AS. $(x+b) = (y) = aE(x) + b$ $(x+b) = (x+b) = aE(x) = aE(x) = b$ $(x+b) = (x+b) = aE(x) = aE$   |   | éxitos en  |
| $\sum_{\mathbf{p}(\mathbf{x})} \mathbf{y}_{\mathbf{x}}(\mathbf{x}) = \sum_{\mathbf{p}} \mathbf{y}_{\mathbf{x}}(\mathbf{x}) = \sum_{\mathbf{p}} \mathbf{y}_{\mathbf{x}}(\mathbf{x}) = \sum_{\mathbf{p}} \mathbf{y}_{\mathbf{x}}(\mathbf{x}) = \sum_{\mathbf{p}(\mathbf{x})} \mathbf{y}_{\mathbf{x}}(\mathbf{x})$ | $- E(y) = \alpha E(x) + b$ $E(x) = npq$ $Var(x) = npq$ $Var(x) = npq$   | $\rightarrow E(Y_{i}) = \alpha E(x_{i}) + b$ $E(x_{i}) = \alpha P_{i}$ $Var(x_{i}) = \alpha $   | $- E(y_i) = aE(x_i) + b$ $E(x_i) = aE(x_i) + b$ $V(x_i) = aE(x_i) + b$ $E(x_i) = aE(x_i) + b$ $V(x_i) = aE(x_i) + b$ $E(x_i) = aE(x_i) + b$ $V(x_i) = aE(x_i) + b$ $E(x_i) = aE(x_i) + b$ $V(x_i) = aE(x_i) + b$ $E(x_i) = aE(x_i) +$   | $- E(y) = aE(x) + b$ $E(x)$ $(x^2) - [E(x)]^2$ $ESTANDAR$ $X:$ $(x)$   
   | $b \rightarrow E(Y) = aE(x) + b$ $E(x)$ $A \qquad Va$ $E(x^2) - [E(x)]^2$ $BiNo(x)$ $X = STANDAR$ $X$   | AS $ \begin{array}{c} AS \\ X+b \rightarrow E(Y) = aE(x) + b \\ & E(x) \\ & Var \\ \hline Var(x) \end{array} $ $ \begin{array}{c} E(x) \\ Var(x) \end{array} $ $ \begin{array}{c} AS \\ Var(x) \end{array} $ $ \begin{array}{c} AS \\ AS \\$   | AS $ \begin{array}{c} AS \\ X+b \rightarrow E(Y) = aE(x) + b \\ Yan \\ Yan \\ \hline Yan (x) \end{array} $ $ \begin{array}{c} E(x) \\ Yan (x) \end{array} $ $ \begin{array}{c} E(x) \\ Yan (x) \end{array} $ $ \begin{array}{c} AS \\ AS \\$   
   | AS $ \begin{array}{c} AS \\ \times + b \rightarrow E(Y) = aE(X) + b \\ \downarrow D \end{array} $ $ \begin{array}{c} E(X) \\ \downarrow D $ $ \begin{array}{c} E(X) \\ \downarrow D \end{array} $ $ \begin{array}{c} E(X) \\ \downarrow D $ $ \begin{array}{c} E(X) \\ \downarrow D \end{array} $ $ \begin{array}{c} E(X) \\ \downarrow D \end{array} $ $ \begin{array}{c} E(X) \\ \downarrow D $ $ \begin{array}{c} E(X) \\ \downarrow D \end{array} $ $ \begin{array}{c} E(X) \\ \downarrow D \end{array} $ $ \begin{array}{c} E(X) \\ \downarrow D $ $ \begin{array}{c} E(X) \\ \downarrow D \end{array} $ $ \begin{array}{c} E(X) \\ \downarrow D $ $ \begin{array}{c} E(X) \\ \downarrow D \end{array} $   | AS $ \begin{array}{ccccccccccccccccccccccccccccccccccc$   | AS $ \begin{array}{ccccccccccccccccccccccccccccccccccc$   
  | AS $ \begin{array}{c} AS \\ Y + b \rightarrow E(Y) = aE(X) + b & E(S) \\ Y + b \rightarrow E(X^2) - [E(X)]^2 & BING \\ CION ESTANDAR & X:   \begin{array}{c} Y + b \rightarrow E(Y) = aE(X) + b & E(S) \\ Y + b \rightarrow E(X^2) - [E(X)]^2 & BING \\ Y + b \rightarrow E(X^2) - [E(X)]^2 & BING \\ Y + b \rightarrow E(X^2) - [E(X)]^2 & BING \\ Y + b \rightarrow E(X^2) - [E(X)]^2 & BING \\ Y + b \rightarrow E(X^2) - [E(X)]^2 & BING \\ Y + b \rightarrow E(X^2) - [E(X)]^2 & BING \\ Y + b \rightarrow E(X^2) - [E(X)]^2 & BING \\ Y + b \rightarrow E(X^2) - [E(X)]^2 & BING \\ Y + b \rightarrow E(X^2) - [E(X)]^2 & BING \\ Y + b \rightarrow E(X^2) - [E(X^2)]^2 & B$  | AS $ \begin{array}{c} AS \\ X+b \rightarrow E(y) = aE(x) + b \\ E(x) \\ 12 \\ 13 \\ 14 \\ 14 \\ 15 \\ 16 \\ 16 \\ 16 \\ 16 \\ 16 \\ 16 \\ 16 \\ 16$  
  | AS $x+b \rightarrow E(y) = aE(x) + b$ $E(x)$ $y = E(x^2) - [E(x)]^2$ $x = E(x^2) - [E(x^2)]^2$   | AS $x+b \rightarrow E(y) = aE(x) + b$ $E(x)$ $y = E(x^2) - [E(x)]^2$ $x = E(x^2) - [E(x^2)]^2$ $x =$   | AS. $X+b \rightarrow E(y) = aE(x) + b$ $E(x) = aE(x) + b$ $A(x) = aE(x) $  | AS. $x+b \rightarrow E(y) = aE(x) + b$ $E(x)$ $y = E(x^2) - [E(x)]^2$ $AS$  
   | AS $x + b \rightarrow E(y) = aE(x) + b$ $E(x)$ $y = E(x) - [E(x)]^{2}$ $y = E(x) - [E(x)]^{2}$ $x + b = a^{2} y ar(x)$ $x + a^{$  | 350000000000000000000000000000000000000   | P(*=x) = 1   |
| $\sum_{\mathbf{p}(\mathbf{x})} \mathbf{y}_{\mathbf{x}}(\mathbf{x}) = \sum_{\mathbf{p}(\mathbf{x})} \mathbf{y}_{\mathbf{x}}(\mathbf{x}) = \sum_{\mathbf{p}(\mathbf{x})}$ | $E(x^2) = \Gamma = (x)^{-2}$ $Vor(x) = npq$   | $E(x^2) - E(x)]^2$ $E(x^2) - E(x)]^2$ BINOMIAL NECATIVE   | $(x^2) - [E(x)]^2$ $ESTANDAR$ $X:$   
   | $(x^2) - [E(x)]^2$ $(x^2) - [E(x)]^2$ BINO $(x^2) - [E(x)]^2$  | $E(x^2) - [E(x)]^2$   | $E(x)$ $\frac{1}{1} = E(x^2) - [E(x)]^2$ $\frac{1}{1} = E(x^2) - [E(x)]^2$ $\frac{1}{1} = \frac{1}{1} = \frac{1}{1}$   
                           | $E(x)$ $\frac{1}{1} = E(x^2) - [E(x)]^2$ $\frac{1}{1} = \frac{1}{1} = \frac{1}{1}$   | $E(x)$ $\frac{12A}{12A}$ $\frac{12A}{$  | $E(x)$ $\frac{12A}{12A}$ $\frac{12A}{$  | $E(x) = E(x^2) - [E(x)]^2$ $V(x) = E(x^2) - [E(x^2)]^2$ $V(x) $   | $E(x) = E(x^2) - [E(x)]^2$ $= E(x^2) - [E(x^2)]^2$ $= E(x^2$  | $E(x) = E(x^2) - [E(x)]^2$ $Va$ $Va$ $Var(x)$ $X+b) = a^2 Var(x)$ $E[a^{++}]$ $E[a^{++}]$ $Va$ $Va$ $Va$ $Va$ $Va$ $Va$ $Va$ $Va$  
  | $\begin{aligned} & E(x^2) - [E(x)]^2 & E(x^2) - [E(x)]^2 & E(x^2) - [E(x)]^2 & E(x^2) & $   | $E(x) = E(x^2) - [E(x)]^2$ $V(x) = E(x^2) - [E(x)]^2$ $E(x) = E(x^2) - [E(x^2)]^2$ $E(x^2) = E(x^2) - [E(x^2)]^2$   | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$  
  | $\begin{aligned} \frac{1}{1} &= \frac{1}{2} &= \frac{1}{2}$   | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$   | T (V) = 0 T (V) +  
  |  |
| $\sum_{\mathbf{p}(\mathbf{x})} \mathbf{g}_{\mathbf{x}}(\mathbf{x}) = \mathbf{g}_{x$   | (x2) - (F(x)]2 var(x) = npq   | $S(x^2) - [E(x)]^2$ Vor(x) = npq  BINOMIAL NECATIVE  Output  BINOMIAL NECATIVE  Output  Description  Description  Output  Description   | (x²) - [E(x)]²  ESTANDAR  X:   | (x²) - [e(x)]²  ESTANDAR  X: (x)  
  | $\frac{A}{E(x^2) - [E(x)]^2}$   | ) = E(x²) - [E(x)]²  
   | $\begin{array}{cccccccccccccccccccccccccccccccccccc$   | $\begin{aligned} & (x^2) - (E(x))^2 & (x^2) -$  | $\begin{aligned} & (x) = E(x^2) - [E(x)]^2 & (x) \\ & (x) = E(x^2) - [E(x)]^2 & (x) \\ & (x) = E(x^2) - [E(x)]^2 & (x) \\ & (x) = E(x^2) - [E(x)]^2 & (x) \\ & (x) = E(x^2) - [E(x)]^2 & (x) \\ & (x) = E(x^2) - [E(x)]^2 & (x) \\ & (x) = E(x^2) - [E(x)]^2 & (x) \\ & (x) = E(x^2) - [E(x)]^2 & (x) \\ & (x) = E(x^2) - [E(x)]^2 & (x) \\ & (x) = E(x^2) - [E(x)]^2 & (x) \\ & (x) = E(x^2) - [E(x)]^2 & (x) \\ & (x) = E(x^2) - [E(x)]^2 & (x) \\ & (x) = E(x^2) - [E(x)]^2 & (x) \\ & (x) = E(x^2) - [E(x)]^2 & (x) \\ & (x) = E(x^2) - [E(x)]^2 & (x) \\ & (x) = E(x^2) - [E(x)]^2 & (x) \\ & (x) = E(x^2) - [E(x)]^2 & (x) \\ & (x) = E(x^2) - [E(x^2)] & (x) \\ & (x) =
E(x^2) - [E(x^2)] & (x) \\ & (x) = E(x^2) - [E(x^2)] & (x) \\ & (x) = E(x^2) - [E(x^2)] & (x) \\ & (x) = E(x^2) - [E(x^2)] & (x) \\ & (x) = E(x^2) - [E(x^2)] & (x) \\ & (x) = E(x^2) - [E(x^2)] & (x) \\ & (x) = E(x^2) - [E(x^2)] & (x) \\ & (x) = E(x^2) - [E(x^2)] & (x) \\ & (x) = E(x^2) - [E(x^2)] & (x) \\ & (x) = E(x^2) - [E(x^2)] & (x) \\ & (x) = E(x^2) - [E(x^2)] & (x) \\ & (x) = E(x^2) - [E(x^2)] & (x) \\ & (x) = E(x^2) - [E(x^2)] & (x) \\ & (x) = E(x^2) - [E(x^2)] & (x) \\ & (x) = E(x^2) - [E(x^2)] & (x) \\ & (x) = E(x^2) - [E(x^2)] & (x) \\ & (x) = E(x^2) - [E(x^2)] & (x) \\ & (x) = E(x^2) - [E(x^2)] & (x) \\ & (x) = E(x^2) - [E(x^2)] & (x) \\ & (x) = E(x^2) - [E(x^2)] & (x) \\ & $  | $\begin{aligned} & (x^2) - (E(x))^2 & (x^2) -$   | $\begin{array}{cccccccccccccccccccccccccccccccccccc$  | $\begin{array}{cccccccccccccccccccccccccccccccccccc$   
  | $\begin{aligned} & (a) = (a) - $   | $\begin{array}{cccccccccccccccccccccccccccccccccccc$   | $\begin{array}{cccccccccccccccccccccccccccccccccccc$   
  | $\begin{array}{cccccccccccccccccccccccccccccccccccc$   | $\frac{1}{2} = \frac{1}{2} = \frac{1}$  |   
   |  |
| $\sum_{\mathbf{r}(\mathbf{x})} g_{\mathbf{x}}(\mathbf{x}) = \sum_{\mathbf{r}(\mathbf{x})} g_{\mathbf{x}}(\mathbf{x}$  | 1 000   | (%)   | ESTANDAR X   
   | ESTANDAR X:  | N ESTANDAR X:  
  | SINO  CLIÓN ESTANDAR  X:  Var(x)  AS  AS  Q*  X+b) = 0 <sup>2</sup> Var(x)   | CIÓN ESTANDAR X:  [Var(x)]  AS  AS  AS  AS  AS  AS  (x)  AS  (y)  (x)  (y)  (y)  (y)  (y)  (y)  (y)  | E[Qt*]  E(XX) - LE(XX)  BINO  X:  [Var(XX)]  AS  X+b) = 0 <sup>2</sup> Var(X)  E( Qt*)  Var  Var  Var  Var  Var  Var  Var  Va  
  | $\frac{1}{1} = \frac{1}{1} = \frac{1}$  | $\frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}} = 1$   | BINC<br>$(x_0 + b) = (x_0) + (x_0)$ E[ $(x_0 + b) = (x_0) + (x_$  | Since discretas    Contact  | SINC  CLOW ESTANDAR  X:  (VOR(X))  AS 
(VOR(X))  AS  E[(C <sup>†</sup> *)]  E[(C <sup>†</sup> *)]  F[(C <sup>†</sup> *)]  POIS:  Ones discretas  VA  de d  | E[ $(x^2)$ ] = $(x^2)$ ]   | E[Qt*]  | Since $\frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}}$   | Since $\frac{1}{2}$  
  |   | ρρα  |

## distribuciones continuas UNIFORME Todo es igualmente probable. $f_{x} = \frac{1}{h-a} \qquad E(x) = \frac{a+b}{2}$ $var(x) = \frac{(b-a)^2}{2}$ $f_{x}(x) = \lambda Q \qquad E(x) = \frac{1}{x}$ $Var(x) = \frac{1}{\lambda^{2}} \qquad M_{x}(t) = \frac{\lambda}{\lambda - t}$ PROPIEDAD DE NO MEMORIA No importa lo que haya pasado antes la probabilidad no cambia NORMAL $f_{X} = \frac{1}{\sqrt{2\pi'}\sigma} \exp\left[-\frac{1}{2} \left(\frac{X-\mu}{\sigma}\right)^{2}\right]$ $E(*) = \mu$ $var(*) = \sigma^2$ $M_{*}(t) = e \times \rho (ut + \frac{1}{2}\sigma^2 t^2)$ TEOREMA $S \times N(\mu, \sigma^2)$ , $y = ax+b - y \sim N(a\mu+b, a^2\sigma^2)$ $Z = x - \mu \sim N(0,1)$