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Dista de Exercícios 04 (Biromial)

Péograe 50

Lpy vão exollidos com reposição

A)
$$P(X = 1) = C_1^{20} \cdot 0,25^4 \cdot 0,75^{20-1} = 20.0,25.0,004 = 0.02 = 2.5$$

 $P(x=0) = C_0^{20} \cdot 0,25^{\circ} \cdot 0,75^{20} = 1.1.0,003 = 0,003 = 0,3\%$

P(x=1+0) = 2% + 0,3% = 2,3%

a)
$$P(x=2) = C_2^4 \cdot 0.5^4 \cdot 0.5^2 = 6.0.25 \cdot 0.25 = 0.375 = 37.5\%$$

 $P(x=2) = 37.5\%$

b)
$$P(x=1) = C_1^4 \cdot 0.5^4 \cdot 0.5^3 = 4.0.5 \cdot 0.125 = 0.25 = 25\%$$

P(x=1)= 25%

$$\frac{R(x=0) = C_0^4 \cdot 0.5^3 \cdot 0.5^4 = 1.1.0.0625 = 6.25\%}{R(x=0) = C_0^4 \cdot 0.5^3 \cdot 0.5^4 = 1.1.0.0625 = 6.25\%}$$

$$P(X=1)=6,25\%$$
 $P(X\geq0&& X\leq1)=25\%+6,25\%=31,25\%$

$$\frac{P(x=2) = 37.5\%}{P(x=3) = C_3^4 \cdot 0.5^3 \cdot 0.5^4 = 4.0.125.0.5 = 0.250 = 25\%}$$

P(X=3=25%

$$\frac{P(X=3=25\%)}{P(X=4)=C_4^{4}\cdot 05^{4}\cdot 0.5^{6}=1.0,0625-1=0,0625=6,25\%}$$

P(X=4)=6,25%

$$\frac{25\%}{(7(x)-1)=68,75\%}$$

Y(x >1) = 37,5%

25+6,25%

3) 5 areanger + 2 menines Equiproversel =
$$\frac{1}{2}$$
=0,5

$$P(x=) = C_2^5 \cdot 0,5^2 \cdot 0,5^3 = 10 \cdot 0,25 \cdot 0,125 = 0,3125 = 31,25\%$$

$$P(x=2) = 31,25\%$$

$$P(x=4) = C_4^4 \cdot 0.08^4 \cdot 0.92^\circ = 1.0,00004 \cdot 1 = 0.0004 = 0.0049^\circ$$

$$P(x=4) = 0.0049^\circ$$

(5) 100 textes
$$\rightarrow$$
 5 alternatives ada $\rightarrow \frac{1}{5} = 0.2$
 $C_1 \cdot 0.2^4 \cdot 0.8^4 = 5 \cdot 0.2 \cdot 0.41 = 0.41 = 41\%$
 $P(x=1) = 41\%$
 $G^2 = 1.4 p + q \rightarrow G^2 = 100.0, 2.0, 8 = 16$

Lista de Exercídes 04 (Roisson)

$$\frac{(\lambda)}{\lambda} = 2, k = 0$$

$$\frac{(\lambda)}{(\lambda)} = \frac{\lambda'' e^{-\lambda}}{k!} \Rightarrow \frac{(\lambda)}{(\lambda)} = \frac{2^0 e^{-\lambda}}{0!} = \frac{1.0, 1353}{1} = 0,1353 = 13,53\%$$

$$\boxed{P(\lambda) = 0 = 13,53\%}$$

200 págnas
$$\rightarrow$$
 200 evres \Rightarrow 1 evre por págla $\lambda = 1$

a)
$$P(x=2) = \frac{1^2 e^{-1}}{2!} = \frac{1.0,3679}{2.1} \approx 0.3679 \approx 0.1839 \approx 18,39\%$$

$$P(x=2) = 18,39\%$$

$$P(x=0) = \frac{1^{6} e^{-1}}{0!} = \frac{1 \cdot 0.3679}{1} \approx 0.3679 \approx 36.7990$$

$$P(x=1) = \frac{1^{4} \cdot e^{-1}}{1!} = \frac{1^{4} \cdot e^{-1}}{1} = \frac{1 \cdot 0.3679}{1} \approx 36.7990$$

$$P(x=2) = 36.799. + 36.7990 = 73.5890$$

$$P(x=2) = 73.5890$$

$$P(x=0) = \frac{5^{\circ} \cdot e^{-5}}{0!} = \frac{1.000674}{1} \approx 0.0067 \approx 0.67\%$$

$$P(x=0) = 0.67\%$$

$$\frac{(4)}{2!} = \frac{25.0,0067}{2} = \frac{0.1675}{2} = 0.08375 = p \rightarrow 9 = 1 - 0.08$$

$$P(x=2) = C_2^4 \cdot 0.08^2 \cdot 0.92^2 = 6 \cdot 0.0064 \cdot 0.8464 = 0.03250 = 3.25\%$$

$$P(x=2) = 3.25\%$$