```
NI
Yucus cuepmini
Macmonia
                               109 65 22 3 1
  200 = 0,61
  The Tyaccous: P(X=i) = e^{-\lambda} \lambda^i
                   P(0) = \frac{e^{-0.61} \cdot 0.61}{\sim 0.543}
  i=0:
                     E(0) = 200 × 0,543 ~ 108,6
                     P(1) = e^{-0.61} - 0.81 \approx 0.543 \cdot 0.61 \approx 0.331
  121:
                     E(1) = 200:0,331 ~ 66,2
                     P(a) = \frac{e^{-0.61} \cdot 0.61^{a}}{2} \simeq 0.101
  i = 2:
                      E(2) = 200.0,101 = 20,2
                     P(3) = \frac{e^{-0.61} \cdot 0.61^3}{6} \simeq 0.0205
   i=3:
                      E(2) = 200.0,0205 = 4,1
                      P(4+) = 1 - P(0) - P(1) - P(2) - P(3) \approx 0,0045
   i=4+:
                      E (4+) = 200.0,0045 20,9
        G
                Εi
                                 \Delta = \sum_{i=0}^{3+1} (0_i - E_i)^2 = \frac{(109 - 108.6)^2}{108.6} +
                108,6
       109
        65
                66,2
                           + \frac{(65 - 66,2)^{2}}{66,2} + \frac{(22 - 80,2)^{2}}{20,2} + \frac{(4 - 5)^{2}}{5} \approx 0,3837
        21
                20,2
                5,0
3+
        4
```

$$p$$
-value = $\int_{0.3837}^{\infty} P_{x^2(2)}(x) dx \sim 0.825 > d=0.05 =>$

 N9
2 3 4 5
1 nomon 33 43 80 144
2 nomon 39 35 72 154 $P_{1} = \frac{72}{600} \qquad P_{2} = \frac{78}{600} \qquad P_{3} = \frac{152}{600} \qquad P_{4} = \frac{298}{600}$

$$\hat{\Delta}_{1} = \frac{(33 - 72)^{2}}{\frac{72}{2}} + \frac{(43 - 78)^{2}}{\frac{48}{2}} + \frac{(80 - 152)^{2}}{\frac{152}{2}} + \frac{(80 - 144)^{2}}{\frac{144}{2}} = 1,04$$

$$\widetilde{\Delta}_{a} = ... = 1, DH$$

$$\hat{\Delta} = \hat{\Delta}_{1} + \hat{\Delta}_{2} = 2.08$$

$$\Delta \sim \chi^{2} ((4-1)(2-1)) = \chi^{2}(3)$$

$$P - Value = \int_{2.08}^{8} P_{\chi^{2}(3)}(x) dx = 0.556 > L = 0.05$$

p-value = P(s > 9,802 | Ho) = 0,2 > d = 0,05

0,073; 0,083 3.

OPMY
$$d_{k} = M[x^{k}] = \int_{-\infty}^{\infty} x^{k} p(x; \vec{\theta}) dx$$

$$\vec{d}_{k} = \frac{1}{n} \sum_{i=1}^{n} x_{i}^{k}$$

$$\{\vec{d}_{k} = d_{k}(\vec{\theta})\} \longrightarrow \vec{\theta} \quad k = \dim(\vec{\theta})$$

$$d_{i} = M_{i} = \int_{-\infty}^{\infty} x P_{N(a; \vec{\theta}^{a})}(x) dx = \frac{1}{|\vec{d}|} \int_{-\infty}^{\infty} x e^{-\frac{(x-a)^{2}}{2\vec{\theta}^{a}}} dx =$$

$$= \int_{-\infty}^{\infty} \frac{\sqrt{3}\vec{\theta}^{a}}{\sqrt{n}} + a e^{-t} dt = \frac{a}{\sqrt{n}} \int_{-\infty}^{\infty} e^{-t} dt + \frac{\sqrt{3}\vec{\theta}^{a}}{\sqrt{n}} \int_{-\infty}^{\infty} t e^{-t} dt = a$$

$$\vec{x} = \vec{d}_{i} \longrightarrow \alpha = \vec{x}$$

$$d_{a} = Mx^{a} = \int_{-\infty}^{\infty} x^{a} P_{N(a; \vec{\theta}^{a})}(x) dx = \vec{\theta}^{n} + q^{a} = \vec{x}^{a} \implies \vec{\theta} = \sqrt{x^{2} - \vec{x}^{2}}$$

$$e^{-x} N(a; \vec{\theta}^{a})$$

$$OM\pi P \quad (kp. \quad Kouwawopole)$$

$$p - value = P(\Delta > 0,258 | H_{0}) = q_{1}q_{2}5$$

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Оба критерия не опровергают гипотезу

