

$$\textcircled{1} \quad T = \sum_{i=1}^k \frac{(O_i - E_i)^2}{E_i}$$

χ^2 -statistika

χ chr.

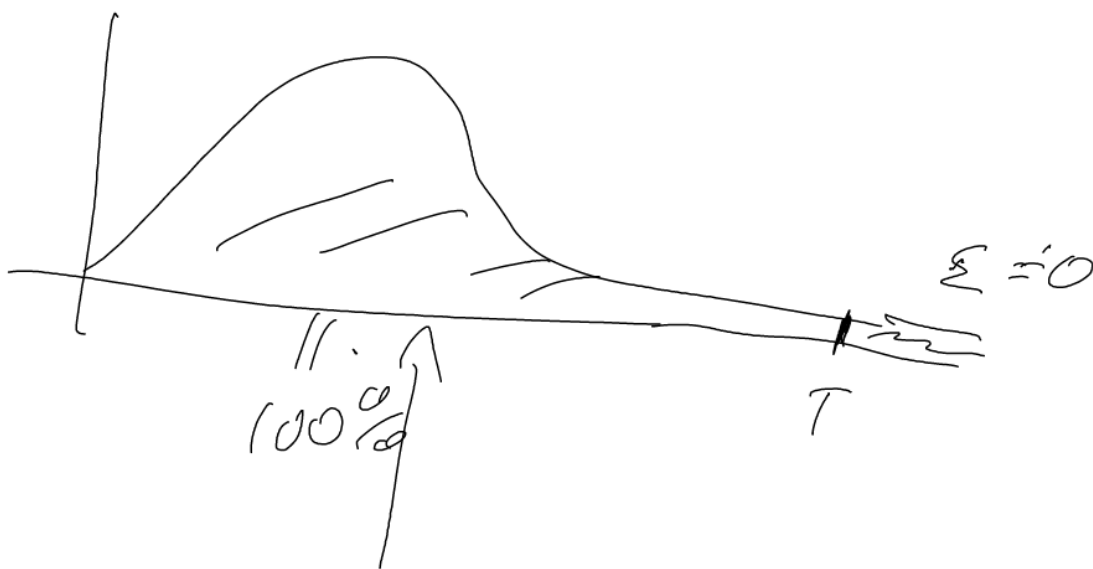
$$\frac{F_{\chi^2}(T)}{0 \dots 1}$$

$$Q \sim \chi_{k-1}^2$$

E_i = očk. hodn. výsl. i

O_i = pozor. hodn. výsl. i

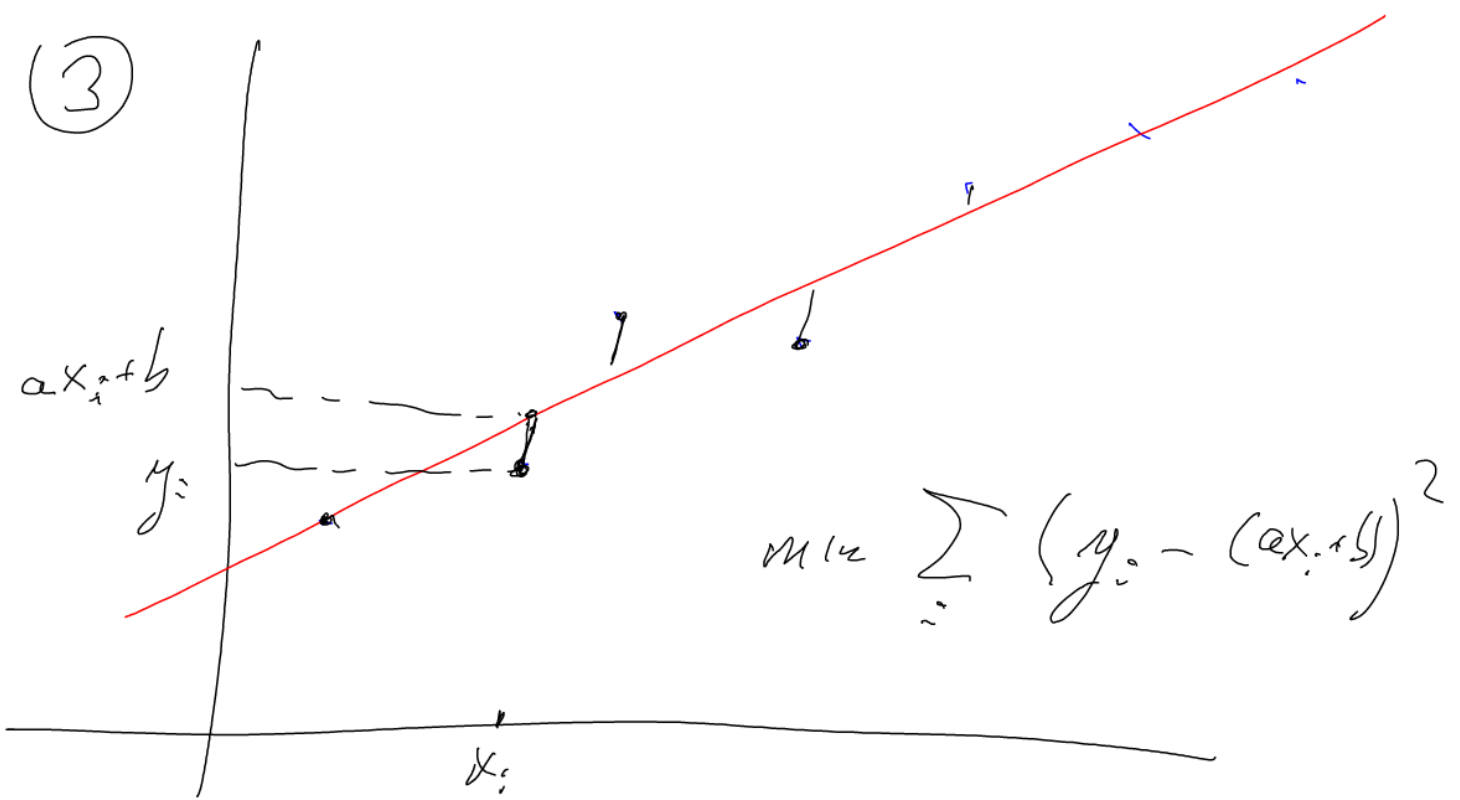
$$P_r(Q \leq T)$$



$$\textcircled{2} \quad X \sim \text{Pois}(\lambda)$$

Přirozený $X=0, X=1, \dots, X=n-1, X \geq n$

(3)



$$y = ax + b$$

$$a = \frac{\sum (x_i - \bar{x})(y_i - \bar{y})}{\sum (x_i - \bar{x})^2} = \frac{\frac{1}{n-1} \sum (x_i - \bar{x})(y_i - \bar{y})}{\frac{1}{n-1} \sum (x_i - \bar{x})^2}$$

$$b = \bar{y} - a\bar{x}$$

$$\therefore \frac{\text{cov}(x, y)}{\text{var}(x)}$$