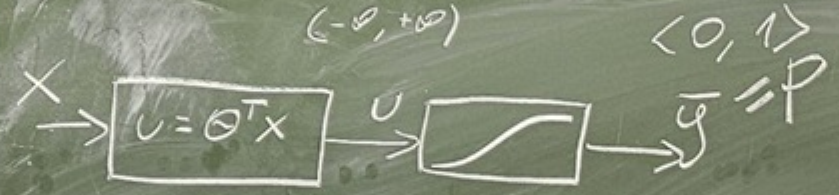
3 ·  = wynik



$$\log_K\left(\frac{p}{1-p}\right) = u$$

$$K^{2} =$$

$$K^u = \frac{p}{1-p}$$

$$K^u - pK^u = p$$

$$K^u = p + pK^u$$

$$K^u = p(1+K^u)$$

$$p = \frac{K^u}{1+K^u}$$

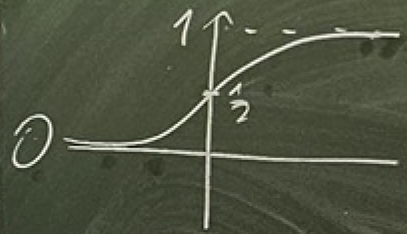
$$p = \frac{1}{\frac{1}{K^u}+1} = \frac{1}{1+K^{-u}}$$

$$\Rightarrow \frac{1}{1+e^{-u}}$$

$$\log_{10} 10 = 1$$

$$\ln_e 1 = 0$$

$$e^0 = 1$$



W domu

$$\frac{dp}{du} = g(p)$$

$N(\mu_{5G}, \sigma_{5G})$

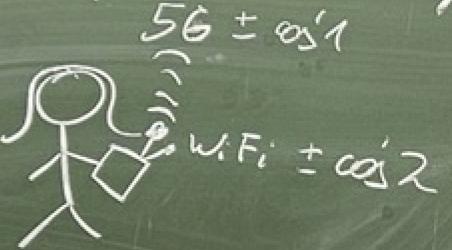
$N(\mu_{WiFi}, \sigma_{WiFi})$

$N(\mu_F, \sigma_F)$

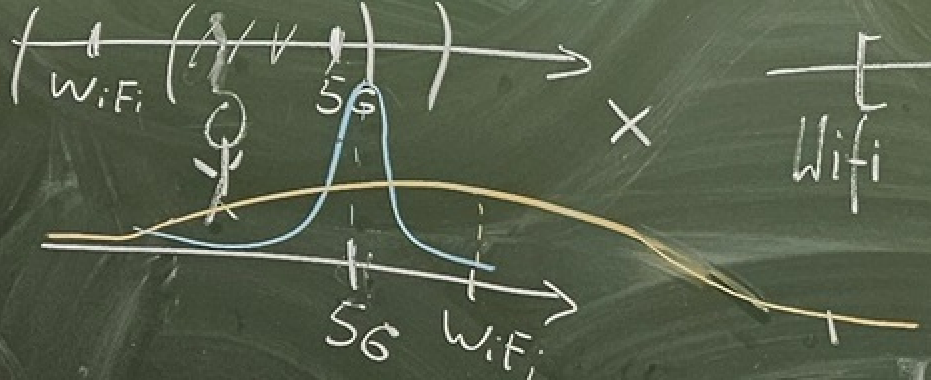
$$\mu_F = \frac{\mu_{5G} + \mu_{WiFi}}{2}$$

$N(\mu_{5G}, \sigma_{5G})$

cos'1 < cos2



$N(\mu_{WiFi}, \sigma_{WiFi})$



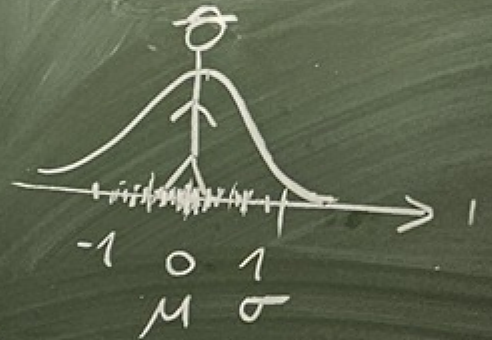
×

$$N(\mu_F, \sigma_F) = N(\mu_{5G}, \sigma_{5G}) \cdot N(\mu_{WiFi}, \sigma_{WiFi})$$

$$\mu_F = \frac{\sigma_{WiFi}}{\sigma}\mu_{5G} + \frac{\sigma_{5G}}{\sigma}\mu_{WiFi}$$

σ_F

±0.5



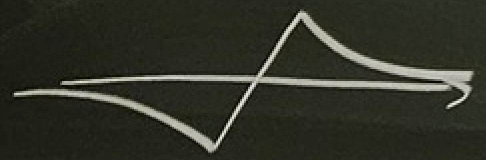
$$\sigma = \sigma_{5G} + \sigma_{WiFi}$$

il. szans.

$p = 0.8$

$$\frac{p}{q} = \frac{p}{1-p} = \frac{0.8}{0.2} = \frac{4}{1}$$

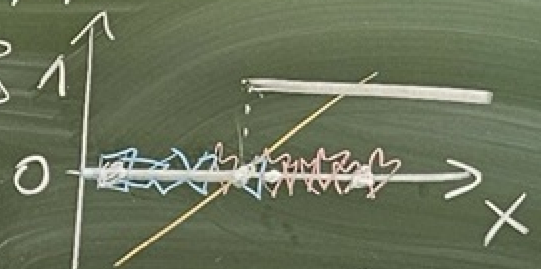
$$\frac{p}{1-p} = \frac{5}{3} \qquad 0.625$$



$$\frac{1}{|u|}$$

$(-\infty, +\infty)$ $\langle 0, 1\rangle$

$$x \longrightarrow \boxed{\Theta^T x} \xrightarrow{u} \boxed{?} \xrightarrow{p}$$

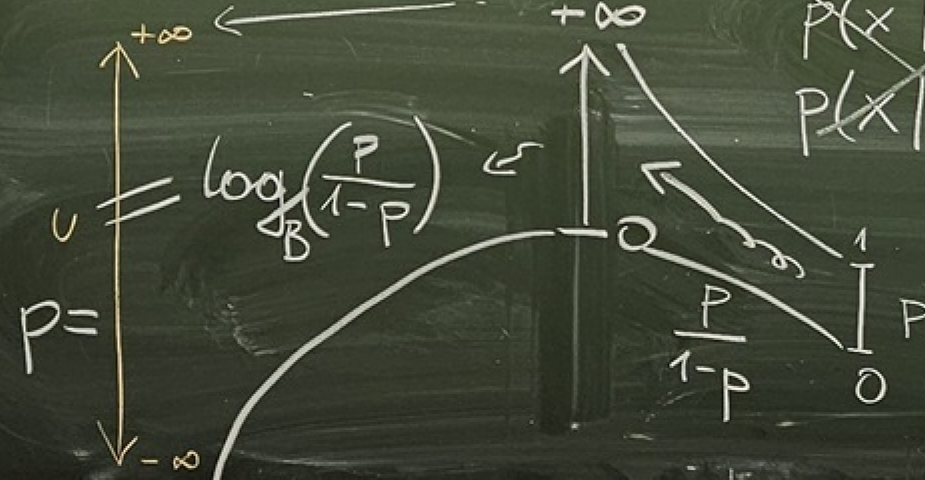


kl $\quad$ u

$\boxed{I}$ $\quad$ $\boxed{15}$

$P(x \mid \diamond)$

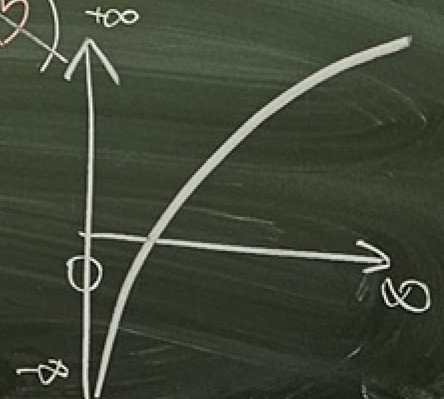
$P(x \mid \heartsuit)$

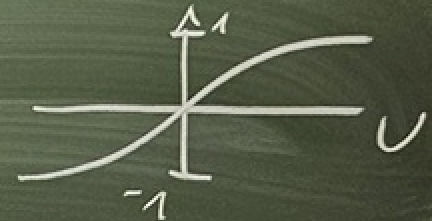


$$u = \log_B\left(\frac{p}{1-p}\right)$$

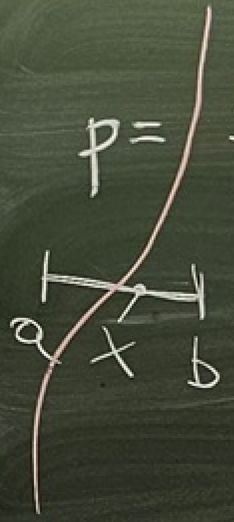
$$p =$$

$$\frac{p}{1-p}$$





$$p = \frac{1 + \operatorname{arctg} u}{2}$$



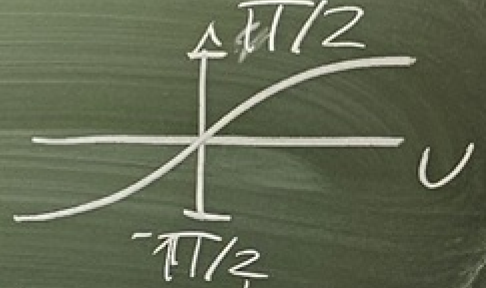
$$P = \frac{B^u}{1 + B^u} = \frac{1}{1 + e^{-u}}$$

$$u = \log_B\left(\frac{P}{1-P}\right)$$

$$B^u = \frac{P}{1-P}$$

w domu

$$\frac{dP}{du} = \text{wzór}(P)$$



$$\frac{\frac{1}{2} + \operatorname{arctg} u}{\pi}$$

$$P=\begin{bmatrix}1 & \frac{1}{2}\\ \frac{1}{2} & 1\end{bmatrix}$$

$\lambda_2=\frac{1}{2}$

$$\begin{bmatrix}\frac{1}{2} & \frac{1}{2}\\ \frac{1}{2} & \frac{1}{2}\end{bmatrix}\begin{bmatrix}v^{(1)}\\ v^{(2)}\end{bmatrix}=\begin{bmatrix}0\\ 0\end{bmatrix}$$

$$\frac{1}{2}v^{(1)}+\frac{1}{2}v^{(2)}=0$$

$$v^{(2)}=-v^{(1)}$$

$$\begin{bmatrix}v^{(1)}\\ -v^{(1)}\end{bmatrix}=v^{(1)}\begin{bmatrix}1\\ -1\end{bmatrix}$$

$$\begin{bmatrix}3 & 0\\ 0 & 1\end{bmatrix}$$

$$\begin{bmatrix}-4.5 & 15\\ -7 & 6\end{bmatrix}$$

$Av=\lambda v$, $\lambda\in\mathbb{R}$

$v\neq 0$

$Av-\lambda v=0_s$

$(A-\lambda I)v=0_s$ $\quad A_{s\times s}$

$\det(A-\lambda I)=0$ $\quad (a-\lambda)(d-\lambda)-bc=0$

$\det\left(\begin{bmatrix}a & b\\ c & d\end{bmatrix}-\begin{bmatrix}\lambda & 0\\ 0 & \lambda\end{bmatrix}\right)=0$ $\quad \lambda^2-\lambda(a+d)+ad-bc=0$

$\det\left(\begin{bmatrix}a-\lambda & b\\ c & d-\lambda\end{bmatrix}\right)=0$ $\quad \lambda^2-\lambda\cdot 2+\frac{3}{4}=0$

$4\lambda^2-8\lambda+3=0$

np.linalg.eig

$\Delta=64-16\cdot 3=64-48=16$

$\sqrt{\Delta}=4$

$\lambda=\frac{8\pm 4}{8}$

$\lambda_1=\frac{3}{2}$ $\quad \lambda_2=\frac{1}{2}$