Musem !!

 $f(x,y) = \frac{1}{m(x^2 + y^2)}$  $(y \in (1:2)) \times \rightarrow 0+$ Carra, nou m.  $\frac{\ln x+y}{\ln x+y^2} = \frac{\ln y}{\ln (x^2+y^2)} = \frac{\ln y}{\ln (y^2)} = \frac{\ln y}{2 \ln y} = \frac{1}{2}$ uniffin In(Xty) = ]

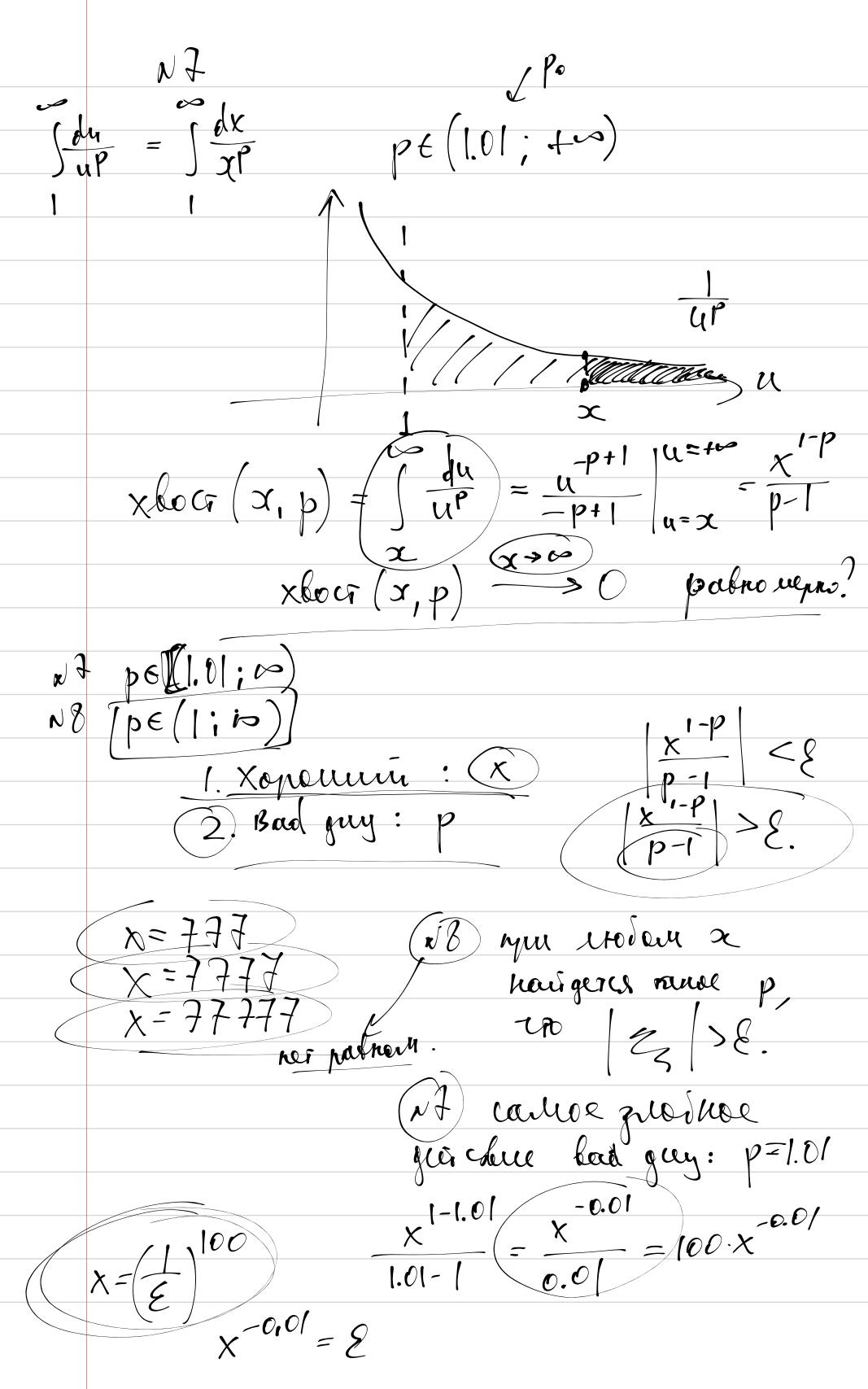
In(Xty) = ]

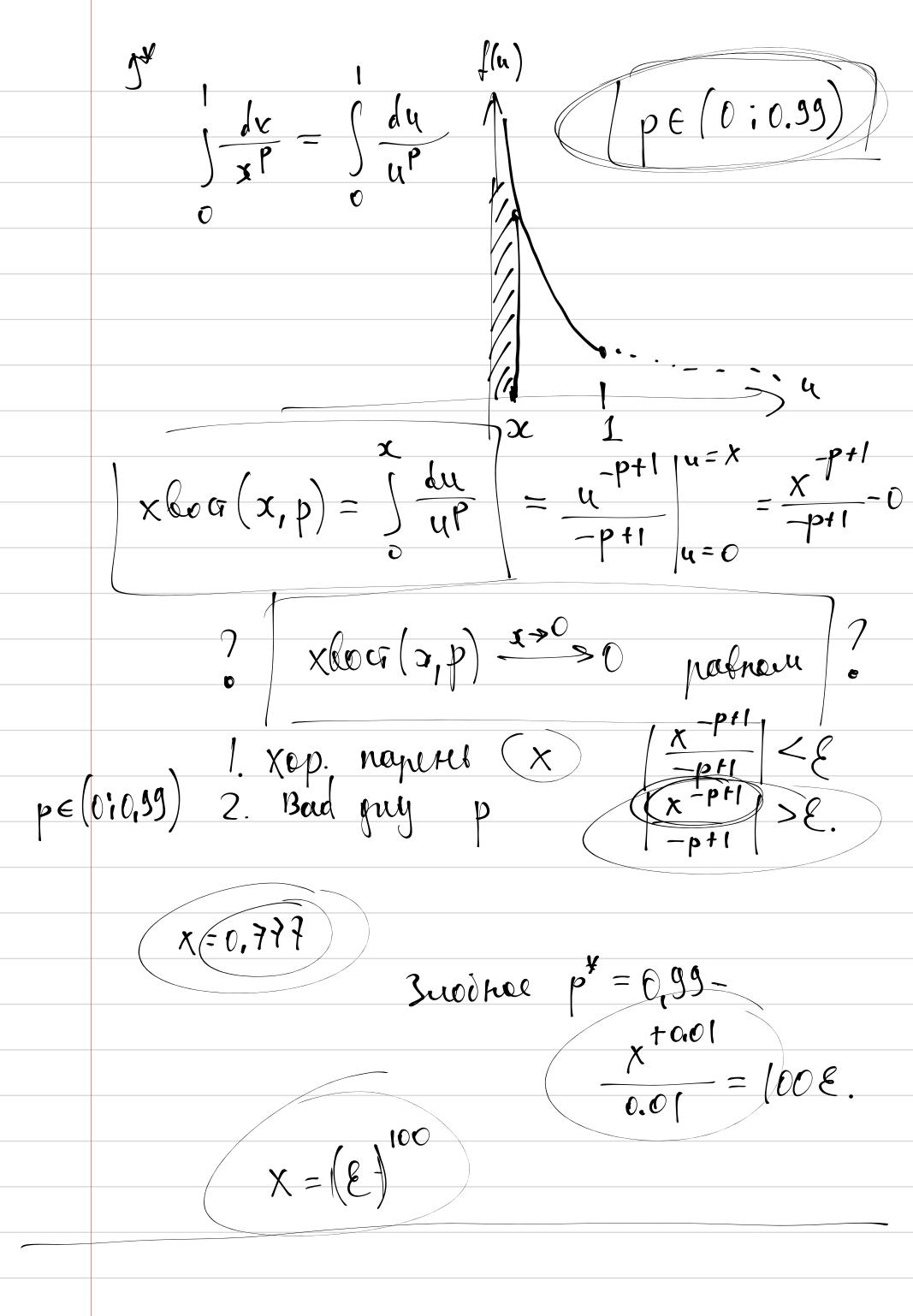
In(Xty) ... Pabronepnas exagninoco fr = 3f.

1. Xoponini napens: \(\frac{1}{2}\) yers \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2}\) 2. Bood guy: y ylub ((x+y)) - 1 > { y ∈ (1:2)  $y \in (0; \omega)$  y = 2x  $\ln(3x)$   $\ln(5x^2)$  =pur te komp rop. naperle, #6 lu (xfy) unif. 1 lu (xfy) ~> 0 2  $\ln(1+x) = x + o(x)$   $\ln(1+x^2) = x^2 + o(x)$  $\frac{\left| \ln \left( x+y \right) - \frac{1}{2} \right| - \left| \ln \left( x+1 \right) - \frac{1}{2} \right| = \frac{\ln \left( x+1 \right)}{\ln \left( 1+x^2 \right)} = \frac{1}{2}$ 

 $= \left| \frac{x + o(x)}{x^2 + o(x^2)} - \frac{1}{z} \right|$ 

Mutyun  $\lim_{x\to 0} \{(x,y)\}$ |. Xop. nap: x yeu: | f(x,y)-0/< 8 2. Bood gry: y serte /f(x,y)-0/>8. yn 1100ber & Chrispahoer xopouns. 30





 $\int_{0}^{\infty} e^{-px} \cdot \cos(2\pi) dx$   $\int_{0}^{\infty} e^{-px} \cdot \cos(2\pi) dx$ Gjett urve gran: no cocsul Spailes locutyc, est cechulya unyc  $\frac{1}{\sqrt{-px}} = \frac{-px}{\sqrt{2x}} = \frac{-px}{\sqrt{2x}}$  $2 \cdot (-p) \cdot e^{-px} \cdot \cos 2x + 2 \cdot e^{-px} \cdot (-2) \sin 2x + 3 \cdot e^{-px} \cdot 2 \cos 2x$ e cos 2x e-px sin 2x  $1 = -p\lambda + 2\beta \qquad \lambda ?$   $0 = -2\lambda - p\beta \qquad \beta .$  $x \cos(x, p) = \int_{x}^{\infty} e^{-py} dy = \frac{e^{-py}}{\sqrt{2p}} dy = \frac{e^{-py}}{\sqrt{2p}} dy = \frac{e^{-py}}{\sqrt{2p}} dy = \frac{e^{-py}}{\sqrt{2p}} dy$ = - px | . xop brugger x | . xop brugger x | . xop py p=[0:01:100]