fy (90) = (m f (0,04h) - f(0,0) - fin en = 0 3) noblemus, somo ramuse non bognose rennepolonos 2 X e 12-42 my y2 + 970; fx (0,0) = 0. $\lim_{\chi \to 0} 2x e^{\frac{1}{2}x^2} = \lim_{\chi \to 0} 2x e^{\frac{1}{2}x} = \lim_{\chi \to 0} 2x e^{\frac{1}{2}x}$ neperigen i holypulli soongunamuu: 5x=6059 6 >0 $\lim_{\substack{\chi > 0 \\ g \to 0}} 2\chi e^{-\frac{1}{2^2 q^2}} = \lim_{\substack{\chi \to 0 \\ g \to 0}} 2\mu(0) e^{-\frac{1}{2}} = \lim_{\substack{\chi \to 0 \\ e \to 0}} (\mu(0) e^{-\frac{1}{2}} + \mu(0) e^{-\frac{1}{2}}) e^{-\frac{1}{2}} = \lim_{\substack{\chi \to 0 \\ e \to 0}} 2\mu(0) e^{-\frac{1}{2}} = \lim_{\substack{\chi \to 0 \\ e \to 0}} 2\mu(0) e^{-\frac{1}{2}} = \lim_{\substack{\chi \to 0 \\ e \to 0}} 2\mu(0) e^{-\frac{1}{2}} = \lim_{\substack{\chi \to 0 \\ e \to 0}} 2\mu(0) e^{-\frac{1}{2}} = \lim_{\substack{\chi \to 0 \\ e \to 0}} 2\mu(0) e^{-\frac{1}{2}} = \lim_{\substack{\chi \to 0 \\ e \to 0}} 2\mu(0) e^{-\frac{1}{2}} = \lim_{\substack{\chi \to 0 \\ e \to 0}} 2\mu(0) e^{-\frac{1}{2}} = \lim_{\substack{\chi \to 0 \\ e \to 0}} 2\mu(0) e^{-\frac{1}{2}} = \lim_{\substack{\chi \to 0 \\ e \to 0}} 2\mu(0) e^{-\frac{1}{2}} = \lim_{\substack{\chi \to 0 \\ e \to 0}} 2\mu(0) e^{-\frac{1}{2}} = \lim_{\substack{\chi \to 0 \\ e \to 0}} 2\mu(0) e^{-\frac{1}{2}} = \lim_{\substack{\chi \to 0 \\ e \to 0}} 2\mu(0) e^{-\frac{1}{2}} = \lim_{\substack{\chi \to 0 \\ e \to 0}} 2\mu(0) e^{-\frac{1}{2}} = \lim_{\substack{\chi \to 0 \\ e \to 0}} 2\mu(0) e^{-\frac{1}{2}} = \lim_{\substack{\chi \to 0 \\ e \to 0}} 2\mu(0) e^{-\frac{1}{2}} = \lim_{\substack{\chi \to 0 \\ e \to 0}} 2\mu(0) e^{-\frac{1}{2}} = \lim_{\substack{\chi \to 0 \\ e \to 0}} 2\mu(0) e^{-\frac{1}{2}} = \lim_{\substack{\chi \to 0 \\ e \to 0}} 2\mu(0) e^{-\frac{1}{2}} = \lim_{\substack{\chi \to 0 \\ e \to 0}} 2\mu(0) e^{-\frac{1}{2}} = \lim_{\substack{\chi \to 0 \\ e \to 0}} 2\mu(0) e^{-\frac{1}{2}} = \lim_{\substack{\chi \to 0 \\ e \to 0}} 2\mu(0) e^{-\frac{1}{2}} = \lim_{\substack{\chi \to 0 \\ e \to 0}} 2\mu(0) e^{-\frac{1}{2}} = \lim_{\substack{\chi \to 0 \\ e \to 0}} 2\mu(0) e^{-\frac{1}{2}} = \lim_{\substack{\chi \to 0 \\ e \to 0}} 2\mu(0) e^{-\frac{1}{2}} = \lim_{\substack{\chi \to 0 \\ e \to 0}} 2\mu(0) e^{-\frac{1}{2}} = \lim_{\substack{\chi \to 0 \\ e \to 0}} 2\mu(0) e^{-\frac{1}{2}} = \lim_{\substack{\chi \to 0 \\ e \to 0}} 2\mu(0) e^{-\frac{1}{2}} = \lim_{\substack{\chi \to 0 \\ e \to 0}} 2\mu(0) e^{-\frac{1}{2}} = \lim_{\substack{\chi \to 0 \\ e \to 0}} 2\mu(0) e^{-\frac{1}{2}} = \lim_{\substack{\chi \to 0 \\ e \to 0}} 2\mu(0) e^{-\frac{1}{2}} = \lim_{\substack{\chi \to 0 \\ e \to 0}} 2\mu(0) e^{-\frac{1}{2}} = \lim_{\substack{\chi \to 0 \\ e \to 0}} 2\mu(0) e^{-\frac{1}{2}} = \lim_{\substack{\chi \to 0 \\ e \to 0}} 2\mu(0) e^{-\frac{1}{2}} = \lim_{\substack{\chi \to 0 \\ e \to 0}} 2\mu(0) e^{-\frac{1}{2}} = \lim_{\substack{\chi \to 0 \\ e \to 0}} 2\mu(0) e^{-\frac{1}{2}} = \lim_{\substack{\chi \to 0 \\ e \to 0}} 2\mu(0) e^{-\frac{1}{2}} = \lim_{\substack{\chi \to 0 \\ e \to 0}} 2\mu(0) e^{-\frac{1}{2}} = \lim_{\substack{\chi \to 0 \\ e \to 0}} 2\mu(0) e^{-\frac{1}{2}} = \lim_{\substack{\chi \to 0 \\ e \to 0}} 2\mu(0) e^{-\frac{1}{2}} = \lim_{\substack{\chi \to 0 \\ e \to 0}} 2\mu(0) e^{-\frac{1}{2}} = \lim_{\substack{\chi \to 0 \\ e \to 0}} 2\mu(0) e^{-\frac{1}{2}} = \lim_{\substack{\chi \to 0 \\ e \to 0}} 2\mu(0) e^{-\frac{1}{2}} = \lim_{\substack{\chi \to 0 \\ e \to 0}} 2\mu(0) e^{-\frac{1}{2}} = \lim_{\substack{\chi \to 0 \\ e \to 0}} 2\mu(0) e^{-\frac{1}{2}} = \lim_{\substack{\chi \to 0 \\ e \to 0}} 2\mu(0) e^{-\frac{$ = lim (0,0), me f_{χ} - reinpeptitude O(0,0), f_{χ} - reinpeptitude O(0,0), f_{χ} glit ty genember andronyud. fx, fy- непрерыения в O(0,0) => f дифереренцируеми в O(0,0). 3252. +(x,y) = xy yun x2+y70; +(0,0)=0. 1) $\lim_{\chi \to 0} f(\chi, y) = \lim_{\chi \to 0} \frac{\chi(y)}{\chi^2 + \eta} = \lim_{\chi \to 0} \frac{\chi(y)}{\chi} = \lim_$ = 1 cm (+1 say (059 = 0 = (0,0), m. e. + (2,4) renpepolbrial orp. (0,0). + 2 - 2³ (no dudubum)

(πο dudubum) 2) ydlmeribie mongogribie. $f_{\chi}(0) = \frac{(0+h)^{0}}{|h|} = 0$; $f_{\chi}(0) = 0$.