NOCOKA. TPAINEHT 13 HIPOUS BOAHA NO 6 U(xa, yo, Zo) Hela f(x,y,z) e genturaparra P(xo,yo,zo)-worka $\vec{e}(\cos \alpha, \cos \beta, \cos \beta) \rightarrow \begin{cases} \alpha = \pm (0x^{2}, \vec{e}) \\ \beta = \pm (0y^{2}, \vec{e}) \end{cases}$ $M(x,y,z) \in p^{-} \longrightarrow \begin{vmatrix} x = x_0 - y \\ y = y_0 \end{vmatrix}$ $+t\cos\beta$, $t\in[0,+\infty)$ Metautupane: h(t)=f(x₀+twsx,y₀+twsβ,≥₀+twsq), t≥0 Dhi(0) ce Hapura производна на f в (хауо, го) по посока на е, $h_{\epsilon}(0) = \lim_{t \to 0^+} h(t) = \lim_{t \to 0^+} f(x_0 + t\cos x, y_0 + t\cos x, z_0 + t\cos y) - f(x_0 + z_0)$ = Of(xo, yo, Zo) D (2f(xo, yo, Zo), Of(xo, yo, Zo), Of(xo, yo, Zo)) = gradf(xo, yo, Zo) CARNEHLA HY (X'M'S) B (XO'RO'SO) 1 De De Dx cost = Of(xo, yo, Zo) cost = Of(xo, yo, Zo) cost = Dx = grad f(xo, yo, zo). == |gradf(xo, yo, zo)||= |cos x(o, ragf(xo, yo, zo), =)

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