1) Composence epymn-so he yerobased экстремира

$$U = 3 - 8x + 6y$$
, each $x^2 + y^2 = 36$
 $L = 3 - 8x + 6y + 2(x^2 + y^2 - 36)$
 $\begin{cases} L'_x = -8x + 2x + 2x \\ 2x = 6 + 2x + 2x \\ 2x = 2x \end{cases} \Rightarrow \begin{cases} y = -\frac{3}{2} \\ 2x = 2x \\ 36 \end{cases} \Rightarrow \begin{cases} 2x = -\frac{5}{6} \\ 2x = \frac{5}{6} \end{cases}$
 $M_x = \left(-\frac{5}{6}; 4\frac{4}{5}; 3\frac{3}{5}\right)$
 $M_y = \left(-\frac{5}{6}; -4\frac{4}{5}; 3\frac{3}{5}\right)$
 $L''_{xx} = 2x$
 $L''_{yy} = 2x$
 $L''_{xy} = 2$

3) Howmy monghographo organization $V=\chi^2+y^2+z^2$ no nonpositential beknope $\overline{C}(-9;8;-12)$ b (·) $M_0(8;-12;8)$ $U = X^{2} + y^{2} + Z^{2}$ $\frac{\partial U}{\partial x} = 2x = 16$ $\frac{\partial U}{\partial y} = 2y = -24$ $\frac{\partial U}{\partial z} = 2z = 18$ (l=V(-9)2+82+122 = 17 20 = 34. asd + 34. coss + 34. cos4 $\cos \lambda = -\frac{9}{17}$ $\cos \beta = \frac{8}{17}$ $\cos \psi = \frac{12}{17}$ $\frac{\partial U}{\partial e}\Big|_{M_0} = 16 \cdot \left(-\frac{8}{17}\right) + \left(-24\right) \cdot \frac{8}{17} + 18 \cdot \frac{12}{17} = \frac{-126 - 182 + 216}{17} = -6$ 4) $U = e^{\chi^2 + y^2 + z^2}$ $\partial(4; -13; -16)$ L(-16; 4; -13) $\frac{34}{3\chi} = e^{44}$, $2\chi = e^{44}(-3e)$ $\frac{34}{3y} = e^{44}$. $2y = e^{44}$. $2y = e^{44}$. $2z = e^{44}$. (-26) $|e| = \sqrt{441} = 21$ $\cos \lambda = \frac{4}{21}$ $\cos \beta = -\frac{13}{21}$ $\cos \gamma = -\frac{16}{21}$ $\frac{94}{90}$, = $\frac{94!}{90!}$, = $\frac{94!}{21}$ = $\frac{94!}{21}$ = $\frac{184}{21}$