That the square three expositions replaced repl П Найчи прастине производине первого и втрого nopsyka, Goegaras & paleucibe anemanulux pouzbesales 4xy = 6y occasive anemanno monglogues = 0  $U_{2}' = -\frac{y^{2}}{z^{2}} + 2z$   $U_{22}'' = \frac{2y^{2}}{z^{3}} + 2$ 4xy = - 2x ; 4yz = - 2y 49x = -27 (12y 2 - 29)



Иайон производино фунции U= x2+ y2+ Z2 w nanpabaenno besopp 2 (-9,8,-12) 6 rocke M (8, -12, 9) Ué = ( do gradu); gradu (uk, uy, u'z) 4x = 2x; U'y = 2g; U'z = 2 = gradU = (2x, 2y, 2 =)
101 = \[ -9^2 + 8^2 - 12^2 = \[ 81 + 64 + 144 = 17 \] Co ( 73; 8 /12) gradle = (16, -24, 18) 12 = 9,16 - 8,24+12.18 = -144-192+216 = -120 
 θ Η α πρου γραγερος με ενερες ε (4, -13, -16) 6 πο τε ε (-16, 4 - 13)
 Thurse results grey of gyungeel  $Uz \in +$ no nampabheuns berops  $\overline{C}(4, -13, -16)$  brocke (-16, 4)  $U'_{k} = e^{x^{2}+y^{4}+2^{2}}$ , 2x;  $U'_{g} = e^{x^{4}+y^{2}+2^{2}}$ , 2y;  $U'_{z} = e^{x^{2}+y^{4}+2^{2}}$ , 2z  $gead U = (-e^{44}, 32, e^{44}, 8, -e^{44}, 26)$   $|C|^{2} = \sqrt{4^{2}-13^{2}-16^{2}} = 21$   $|C|^{2} = \sqrt{4^{2}-13^{2}-16^{2}} = 21$ 4' = e" (-128 = 104 + 416) = e441, 184

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Исследован на экспренум функцию (1 = x2y + fy3+ 2x2+ 3y2-1 4x' = 2xy + 4x 2xy + 4x = 0; 2xy = -4x; y = -2  $4y' = x^2 + y^2 + 6y'$   $x^2 + y^2 + 6y = 0$ ;  $x^2 + 4 - 12 = 0$ gle orey (V8, -2) (-V8, -2) U"xx = 2y+4, U"yy = 2y+6, Uxy = 2x, U"x = 2x 1 = Uxx = 0 - Naspuesque pasosass Montain guggepenyuaa du= (2y+4)dx2 + 4xdxdy + (2y+6)dy2 = 418 dxdy + 2dy 2 >0 - TO CXG MUMEI NEYMG TO ELG (-18, -2) du2= -4/8 dxdy + 2dy 2 20 - voils narchyng

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