III
$$h(x_1, y_1, z) = x^2 + 3xy^2 + z^2 - 39x - 36y + 2z + 26$$

Harana. $\frac{24}{3x} = \frac{24}{3x} = \frac{24}{3x} = \frac{24}{3x^2} = \frac{24$

$$\frac{3^{2}1}{3^{2}3^{2}} = \frac{3}{3^{2}} \left(\frac{5^{2}}{3^{2}} \right) = \frac{3}$$

=24(2)=2.1=2

Rapuanu 2: du = 34 dx + 34 dy + 34 dz du= d (x3+3 xy2+22-39x-36y+22+26) = $= d(x^2) + 3d(xy^2) + d(2^2) - 33d(x) - 36d(x) + 2d(x) = (1)$ $d(x^3) = d(x^3) dx = 3x^3 dx$ d(49)= dx)42 + xd(43) = 42dx + x = (45)dy = = hzdx + x 24dy = hzgx + 5xydy $d(2^2) = \frac{1}{42}(2^2)d2 = 22 d2$ (1) = 3x2dx + 3(92dx+24ydy) + 22d2 - 39dx-36dy +2d2 = = (3x2+3y2-39) dx + (6xy-36) dy + (22+2) dz = = 3 (x2+42-13) dx + 6(xy-6) dy + 2(2+1) dz $\frac{31}{20} = 8(x^2+y^2-13)$ $\frac{34}{50} = \ell(xh-e)$

 $\frac{35}{31} = 5(5+1)$

$$\int = \frac{3}{3} \frac{1}{3} \frac{1}{3} \frac{1}{3} + \frac{3}{3} \frac{1}{3} \frac{1}{3} \frac{1}{3} \frac{1}{3} + \frac{3}{3} \frac{1}{3} \frac{1}{3} \frac{1}{3} \frac{1}{3} + \frac{3}{3} \frac{1}{3} \frac{1}{3}$$

1 = 2/1 dx2 + 2/1 dy2 + 2/2 dz2 + 2 2/2 dz2 + 2 2/2 dz2 + 2 2/2 dz2 + 2 2/2 dz2 x