Th. (Popuyra CTOKCO) Mycrb ha osi-tu G zagario nenp. gusp-e beutoprise noue $\overline{a} = (P, Q, R)$. $\Pi_y c \overline{b}$ f = (P, Q, R). $\Pi_y c \overline{b}$ f = (P, Q, R). f = (P,F-gbaxger renn guop-ua Ha D, D-mocnas, aparwiettas ose-To c parmyet 2D, rge d D - moerati mycorpo-magnuti kontyp, querrague Su DD -contacebarre, Torga $\iint_{S} (rot\bar{a}, \bar{n}) dS = \iint_{\partial S} (\bar{a}, d\bar{r})$ Don-60: $\frac{1}{|r_{1} \times r_{3}|} = \frac{1}{|r_{1} \times r_{3}|} = \frac{1}$ $=\frac{i}{\partial(u,v)}\frac{\partial(y,z)}{|r|||r||||s||}+\frac{i}{j}\frac{\partial(z,x)}{\partial(u,v)}\frac{1}{|r'|||xr'||}+\frac{i}{k}\frac{\partial(x,y)}{\partial(u,v)}$

=:
$$\overline{i} \cos_{x} x + \overline{j} \cos_{y} b + \overline{u} \cos_{y} cos y$$
 (Tan naybam)

2) Exgen ganagorbato Crouca gua cuyraa

 $\overline{a} = (P, 0, 0)$

Pacemetrum $\int Polx = \int P \cdot (x'_{u} u'_{t} + x'_{o} v'_{t}) dt = \delta s$
 $\int P \cdot (x'_{u} u'_{t} + x'_{o} v'_{t}) dt = \delta s$
 $\int P \cdot (x'_{u} u'_{t} + x'_{o} v'_{t}) dv = \delta s$
 $\int P \cdot (x'_{u} u'_{t} + x'_{o} v'_{t}) du dv$
 $\int P \cdot (x'_{u} u'_{t} + x'_{o} v'_{t}) du dv$
 $\int P \cdot (x'_{u} u'_{t} + x'_{o} v'_{t}) du dv$
 $\int \int (x'_{u} u'_{t} + x'_{o} v'_{o} v'_{o} + x'_{o} v'_{o} v'_{o} + x'_{o} v'_{o} v'_{o} + x'_{o} v'_{o} v'_{o} v'_{o} + x'_{o} v'_{o} v'_{o} v'_{o} v'_{o} v'_{o} v'_{o} v'_{o} v'_{o} + x'_{o} v'_{o} v'_{o}$

$$=\iint_{S} \left(P_{z}^{1} \cos \beta - P_{y}^{1} \cos \beta \right) dS = \iint_{S} (rot \overline{a}, \overline{n}) dS$$

$$rot \overline{a} = \begin{bmatrix} \overline{i} & \overline{i} & \overline{u} \\ \frac{\partial}{\partial x} & \frac{\partial}{\partial y} & \frac{\partial}{\partial x} & \frac{\partial}{\partial z} \end{bmatrix} = \underbrace{\frac{\partial}{\partial x}}_{\overline{i}} \overline{u} \cdot \underbrace{\frac{\partial}{\partial y}}_{\overline{i}}$$

$$\overline{n} = (CD_{1}d, CD_{1}\beta, CD_{1}\beta)$$

$$(rot \overline{a}, \overline{n}) = P_{z}^{1} CD_{1}\beta, CD_{1}\beta$$

$$(rot \overline{a}, \overline{n}) = P_{z}^{1} CD_{2}\beta - P_{y}^{1} CD_{3}\beta$$

$$(**): \iint_{S} (rot \overline{a}, \overline{n}) dS = \iint_{S} \underbrace{CD_{1}\beta}_{x'u} \underbrace{P_{1}^{1}}_{z'} \underbrace{P_{2}^{1}}_{z'} du dU$$