$$X = X(u,v)$$
,  $Y = Y(u,v)$ 

Jacobien metrix:

$$\int (u,v) = \frac{\partial(x,y)}{\partial(u,v)} = \begin{bmatrix} \frac{\partial x}{\partial u} & \frac{\partial x}{\partial v} \\ \frac{\partial y}{\partial u} & \frac{\partial y}{\partial v} \end{bmatrix}$$

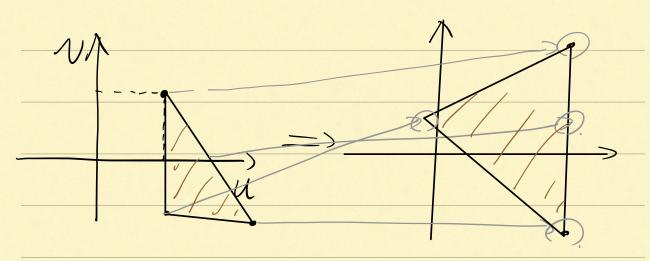
$$dx = \frac{\partial x}{\partial u} du + \frac{\partial x}{\partial v} dv.$$

$$dy = \frac{\partial y}{\partial u} du + \frac{\partial y}{\partial v} dv.$$

$$\begin{bmatrix} X \\ y \end{bmatrix} = J(u,v) \begin{bmatrix} u \\ v \end{bmatrix}$$

$$(x,y) = f(u,v)$$

$$f'(x,y) = (u,v)$$



$$\iint_{S} d(x,y) = \iint_{S} df(u,v)$$

	=> /T/: 11 11 th at 5 x h
	$\int \int d(x,y) d(u,v) = \int \int d(x,y) d(u,v) d(u,v) d(u,v) = \int d(x,y) d(u,v) d(u,v) d(u,v) = \int d(x,y) d(u,v) d(u,v) d(u,v) d(u,v) = \int d(x,y) d(u,v) d(u,v) d(u,v) d(u,v) d(u,v) = \int d(x,y) d(u,v) d(u,v) d(u,v) d(u,v) d(u,v) d(u,v) d(u,v) d(u,v) d(u,v) = \int d(x,y) d(u,v) d(u,v$
=	$\int \int \frac{dc}{dc} dc (u,v)$
	S 1 d c u, v) { >0
	) (山沙寿变化至面积.耐
	(X,y) 变的的信数