Para el borde derecho

$$a^{x} = \frac{3^{x}}{3^{x}} = 0$$

$$U_{\gamma} = 0$$
 ,  $\frac{dv_{\gamma}}{dx} = 0$ 

$$\omega_{x} = \frac{\partial x}{\partial x} - \frac{\partial x}{\partial y} = -\frac{\partial^{2} x}{\partial y^{2}}$$

Reemplazando en la serie de Taylor.

$$-2 \frac{u(x, y+h) - u(x,y)}{h^2} = \omega dw$$

Con diferenciales infinitive

$$\omega_{\text{de}} = -2 \frac{u_{\lambda,j+1} - u_{\lambda,j}}{h^2}$$

Para el barde izquierdo

$$a_{x} = \frac{a_{x}}{a_{x}} = 0$$

$$U_{\gamma} = 0$$
,  $\frac{dv_{\gamma}}{dx} = 0$ 

$$\omega_{i*q} = \frac{\partial u_i^2}{\partial x} - \frac{\partial u_x}{\partial y} = -\frac{\partial^2 u}{\partial y^2}$$

Reemphrando en la serie de Taylor.

$$\alpha(x,y-h) = \alpha(x,y) - \frac{\partial y}{\partial x}h + \frac{1}{2}\frac{\partial^2 y}{\partial x^2}h^2 + \cdots$$

$$u(x, y-h) = u(x,y) - \frac{\omega_{i2q}}{z} h^2$$

$$-z \frac{u(x, y-h) - u(x,y)}{h^2} = \omega_{i2q}$$

Con diferenciales infinitivo

$$\omega_{iqq} = -2 \frac{u_{i,j-1} - u_{i,j}}{h^2}$$