(a)
$$u = x$$
, $u = -t$
 $u + v = t$
 $v = t =$

$$\frac{\partial u}{\partial x} = \frac{\partial v}{\partial x} (\frac{1}{2} - \frac{1}{2}) = \frac{\partial u}{\partial x} = \frac{\partial v}{\partial x} - \frac{\partial v}{\partial x} + \frac{\partial v}{\partial x} = \frac{\partial v}{\partial x} - \frac{\partial v}{\partial x} + \frac{\partial v}{\partial x} = \frac{\partial v}{\partial x} - \frac{\partial v}{\partial x} + \frac{\partial v}{\partial x} = \frac{\partial v}{\partial x} - \frac{\partial v}{\partial x} + \frac{\partial v}{\partial x} = \frac{\partial v}{\partial x} - \frac{\partial v}{\partial x} + \frac{\partial v}{\partial$$

4.91 (a) w=w(xy

z- momentum

4-momenton

21-momentum

$$(\frac{\partial L}{\partial z} + Pg) = \mu \frac{\partial L}{\partial x}$$
 at $x = 8$
$$\frac{\partial L}{\partial z} = \frac{\partial L}{\partial x} = 0$$

2 semilant

(b)
$$\frac{200}{000}$$
 $\frac{1}{200} = -\frac{1}{100}$
 $\frac{1}{100}$
 $\frac{1}{100}$

=) 200 = - 9000 + 0 [+ 2 (revo) - 40]

B.C. UB(R,t) = OR

UB(0,t) = D