$$2 = (|(x)| + |(y)|, |u(x)| + |u(y)|)$$

$$W_2 = \frac{|u(x)| + |u(y)| - (|(x)| + |(y)|)}{2}$$

$$W_2 = \frac{|u(x)| - |u(x)|}{2} + \frac{|u(y)| - |u(y)|}{2}$$

$$W_2 = \frac{|u(x)| - |u(x)|}{2} + \frac{|u(y)| - |u(y)|}{2}$$

$$W_2 = \frac{|u(x)| - |u(x)|}{2} + \frac{|u(y)| - |u(y)|}{2}$$

2 THE DIFFERENCE

Wz = Wx + Wy

$$Z = (l(x) - u(y), u(x) - l(y))$$

$$W_{2} = \frac{u(x) - l(y) - l(x) + u(y)}{2}$$

$$W_{2} = \frac{u(x) - l(x)}{2} + \frac{u(y) - l(y)}{2}$$

$$W_{x} = 0.5$$
, $W_{y} = 0.5$
 $Z = x \cdot y = \langle 0.3 \rangle$
 $W_{z} = 1.5$

$$ex.2. x = \langle 0, 1 \rangle & y = \langle 1, 2 \rangle$$
 $W_{x} = 0.5, \quad W_{y} = 0.5$
 $2 = x \cdot y = \langle 0, 2 \rangle$
 $W_{z} = 1$

if wz would be a function of only wx, wy then it would produce the same result for the same arguments and the examples above shows otherwise

The same ex. holds for division:

1.
$$x = \langle 0, 1 \rangle, y = \langle 2, 3 \rangle$$

 $\frac{1}{4} = \langle \frac{1}{3}, \frac{1}{2} \rangle$
 $2 = x \cdot \frac{1}{4} = \langle 0, \frac{1}{2} \rangle$
 $w_2 = \frac{1}{4}$

2.
$$x = \langle 0,1 \rangle, \ y = \langle 1,2 \rangle$$

$$\frac{1}{y} = \langle \frac{1}{2}, 1 \rangle$$

$$z = x \cdot \frac{1}{y} = \langle 0,1 \rangle$$

$$\omega_z = 0.5$$