Inputs =
$$(n_1, n_2, n_3, n_4) = (0.7, 1.2, 1.1, 2)$$

Weights = $n_1 = -1.7$ $n_4 = -1.8$
Weights = $n_1 = 0.1$ $n_5 = -0.2$
 $n_7 = -0.6$ $n_8 = 0.5$

Loss function
$$L(y, \hat{y}) = ||\hat{y} - y||^2$$

$$\frac{\partial L}{\partial w_i} = ?$$

$$= \frac{\pi_1 \cdot W_1 + \pi_2 W_2}{(-1.7) + (1.7)(0.1)}$$

$$= (-1.19) + (0.12)$$

$$= -1.07$$

$$= \frac{\pi_1 \cdot W_2 + \pi_4 W_4}{(-1.7)(-0.6) + (2)(-1.8)}$$

$$= (-0.66) + (-3.6)$$

$$= \frac{\pi_2 \cdot W_2}{(-1.8)(-0.6) + (-3.6)}$$

$$= \frac{\pi_3 \cdot W_2}{(-1.8)(-0.6) + (-3.6)}$$

Now,
$$h_1 = \frac{1}{1+e^{-W}n_1-n_2w_2}$$

$$h_1 = \frac{1}{1+e^{-(0.7)(-1.7)-(1.2)(0.1)}}$$

$$h_1 = \frac{1}{1+e^{-(1.19-0.12)}}$$

$$h_2 = \frac{1}{1+e^{(1.07)}} = h_1 = \frac{1}{3.915}$$

$$h_1 = 0.255$$

$$h_{2} = \frac{1}{1 + e^{-n_{3} w_{3}} - n_{4} w_{4}}$$

$$= \frac{1}{1 + e^{-(0.1)(-0.6) - (2)(-1.8)}}$$

$$= \frac{1}{1+e^{4.26}}$$

$$= \frac{1}{1+e^{4.26}}$$

$$= \frac{1}{1+70.5}$$

h= 0.0139

$$\frac{\partial s_{s}}{\partial h_{s}} = w_{s} / \frac{\partial s_{s}}{\partial h_{s}} = w_{s} / \frac{\partial$$