1.
$$\hat{J}_{1} = W_{1}h_{0} + W_{1} \times X_{1}$$

$$\hat{J}_{1} = W_{2}h_{1}$$

$$h_{2} = W_{3}h_{1} + W_{2}X_{2}$$

$$\hat{J}_{2} = W_{3}h_{2}$$

$$= W_{3} W_{1}h_{1} + W_{3} W_{2} \times X_{2}$$

$$= W_{3} W_{1}h_{2} + W_{3} W_{3} \times X_{2}$$

$$= W_{3} W_{1}h_{3} +$$

$$y_1 = 5$$
, $y_2 = 5$

$$W_{x} = 0.1$$
 $W_{y} = 2$
 $\int_{-\infty}^{\infty} \int_{-\infty}^{\infty} (\sqrt{2}(x) + \sqrt{2})(x) dx$

$$= (3/-01)(0)/-5)^{2} + (6-5)^{2}$$

$$= (2(0)(1) + (0.1)(0)/-5)^{2} + (6-5)^{2}$$

$$= (2(0)0) + (0) + (1)^{2}$$

$$= (2(1+1)-5)^{2} + (1)^{2}$$

$$= (2(17)^{2} + (1)^{2} = (2)$$

$$= (-1)^{2} + (1)^{2} = (2)$$

3)
$$L_{1} = (\hat{y}_{1} - y_{1})^{2} + (\hat{y}_{2} - y_{2})^{2}$$
 $L_{2} = (\hat{y}_{1} - y_{1})^{2} + (\hat{y}_{2} - y_{2})^{2}$
 $L_{3} = (\hat{y}_{1} - y_{1})^{2} + (\hat{y}_{2} - y_{2})^{2}$
 $L_{4} = (\hat{y}_{1} - y_{1})^{2} + (\hat{y}_{2} - y_{2})^{2}$
 $L_{5} = (\hat{y}_{1} - y_{1})^{2} + (\hat{y}_{2} - y_{2})^{2}$
 $L_{7} = (\hat{y}_{1} - y_{1})^{2} + (\hat{y}_{2} - y_{2})^{2}$
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 $L_{7} = (\hat{y}_{1} - y_{1})^{2} + (\hat$

$$\frac{\partial L_t}{\partial h_1} = 2 \left(W_y h_1 - y_1 \right) \left(W_y \right)$$

$$= 2(2h_1 - 5)(2)$$

$$=(4h_1-10)(2)$$

$$L_{t} = (\hat{y}_{1} - y_{1})^{2} + (\hat{y}_{2} - y_{2})^{2}$$

$$= (W_{y}h_{1} - y_{1})^{2} + (W_{y}W_{h}^{2}h_{0} + W_{y}W_{h}W_{x}X_{1}$$

$$+ W_{y}W_{x}X_{2} - y_{2})^{2}$$

$$= 2(-1)(2*1)$$