$$\frac{1 - x^{(i)}}{3} = \frac{e^{-z^{(i)}}}{1 + e^{-z^{(i)}}}$$

$$\frac{3}{3}x^{(i)} = x^{(i)}(1 - x^{(i)})$$

$$\frac{3}{3}x^{(i)} = x^{(i)}(1 - x^{(i)})$$

$$= x^{(i)}(1$$

$$=\frac{1}{N}\times^{T}(\hat{\gamma}-\gamma)$$

(2) Need 
$$\Delta^{(2)} = \underline{\partial J}$$
 $\overline{\partial Z_1^{(2)}}$ 

Error at output neuron
$$5(3) = 35$$

$$\Delta_{i}^{(3)} = \Delta_{i}^{(3)}$$

$$\Delta_{i}^{(4)} = \left(\sum_{k} \Delta_{k}^{(4)}\right) \psi_{i}^{(4)} \left(\sum_{k=1}^{4} \Delta_{k}^{(4)}\right)$$

$$\frac{\partial \overline{\partial}}{\partial w_{2l}} = \sum_{i=1}^{n} A_{i} A_{i} A_{i}$$

$$\frac{\partial \overline{\partial}}{\partial w_{2l}} = \sum_{i=1}^{n} A_{i} A_{i}$$

$$\frac{\partial J}{\partial w_{12}} = \Delta_{2}^{\alpha} \times_{1}$$

$$\frac{\partial J}{\partial w_{12}} = \Delta_{1}^{\alpha} \times_{2}$$

$$\frac{\partial J}{\partial w_{23}} = \Delta_{2}^{\alpha} \times_{1}$$

$$\frac{\partial J}{\partial w_{23}} = \Delta_{2}^{\alpha} \times_{1}$$

$$\frac{\partial J}{\partial w_{23}} \times_{1}$$