$$\frac{\partial J}{\partial w_{12}} = \Delta_{2}^{(2)} \alpha_{1}^{(1)}$$

$$\frac{\partial J}{\partial w_{21}} = \Delta_{1}^{(2)} \alpha_{2}^{(1)}$$

$$\frac{\partial J}{\partial w_{21}} = \Delta_{2}^{(2)} \alpha_{2}^{(1)}$$

$$\frac{\partial J}{\partial w_{22}} = \Delta_{1}^{(2)} \alpha_{2}^{(1)}$$

$$\frac{\partial J}{\partial w_{12}} = \Delta_{1}^{(1)} X_{1}$$

$$\frac{\partial J}{\partial w_{12}} = \Delta_{2}^{(1)} X_{2}$$

$$\frac{\partial J}{\partial w_{22}} = \Delta_{1}^{(1)} X_{2}$$

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