$$J_{\mu3E}(\theta) = \frac{1}{2m} \sum_{i=1}^{\infty} \left( y^{(i)} - \left( \sum_{k=1}^{\infty} \omega_{i,k} \cdot e^{(\omega_{i,k} \cdot \mathbf{x}^{(i)} + b_{i,k})} + b_{i} \right) \right)^{2}$$

$$\frac{1}{2m} \sum_{i=1}^{\infty} \left( y^{(i)} - \left( \sum_{k=1}^{\infty} \omega_{i,k} \cdot \mathbf{z} + b_{i} \right) \cdot \mathbf{z} \cdot (\mathbf{1} - \mathbf{z}) \cdot \mathbf{x}^{(i)} \cdot \omega_{i} \mathbf{k} \right) \right)$$

$$\frac{1}{2m} \sum_{i=1}^{\infty} \left( y^{(i)} - \left( \sum_{k=1}^{\infty} \omega_{i,k} \cdot \mathbf{z} + b_{i} \right) \cdot \mathbf{z} \right) \cdot \left( \mathbf{1} - \mathbf{z} \right) \cdot \mathbf{z} \right)$$

$$\frac{1}{2m} \sum_{i=1}^{\infty} \left( y^{(i)} - \left( \sum_{k=1}^{\infty} \omega_{i,k} \cdot \mathbf{z} + b_{i} \right) \cdot \mathbf{z} \cdot (\mathbf{1} - \mathbf{z}) \right) \cdot \mathbf{z} \right)$$

$$\frac{1}{2m} \sum_{i=1}^{\infty} \left( y^{(i)} - \left( \sum_{k=1}^{\infty} \omega_{i,k} \cdot \mathbf{z} + b_{i} \right) \cdot \mathbf{z} \cdot (\mathbf{1} - \mathbf{z}) \right) \cdot \mathbf{z} \cdot (\mathbf{1} - \mathbf{z}) \right) \cdot \mathbf{z} \cdot (\mathbf{1} - \mathbf{z}) \cdot \mathbf{z}$$

$$\frac{1}{2m} \sum_{i=1}^{\infty} \left( y^{(i)} - \left( \sum_{k=1}^{\infty} \omega_{i,k} \cdot \mathbf{z} + b_{i} \right) \cdot \mathbf{z} \cdot (\mathbf{1} - \mathbf{z}) \right) \cdot \mathbf{z} \cdot (\mathbf{1} - \mathbf{z}) \cdot \mathbf{$$