Men Squared Ever (MSE):

$$J = \frac{1}{2m} \sum_{i=1}^{m} \left(\left(\mathcal{G}^{(i)} - \mathcal{G}^{(i)} \right)^{2} \right)$$

$$\frac{\partial J}{\partial \theta} = \frac{1}{m} \sum_{i=1}^{m} (\hat{y}^{(i)} - y^{(i)}) \cdot \frac{\partial \hat{y}^{(i)}}{\partial \theta}$$

Man Absolute Error (MAE)

$$\frac{\partial J}{\partial \theta} = \frac{1}{m} \sum_{i=1}^{\infty} sgn \left(\hat{y}^{(i)} - y^{(i)} \right) \cdot \frac{\partial \hat{y}^{(i)}}{\partial \theta}$$