$$g(w) = \frac{1}{w(1-w)} = \frac{(1+e^{\frac{\alpha}{2}})^2}{e^{\frac{\alpha}{2}}}$$

$$6(0) = \frac{e^{0}}{(He^{0})^{2}}$$

$$w_{i} = \{(\hat{g}(w))^{2} | \hat{b}(\theta)\}^{2} = \frac{e^{\sigma}}{(1+e^{\sigma})^{2}} = \frac{e^{\frac{\sigma}{(1+e^{\sigma})^{2}}}}{(1+e^{\sigma})^{2}}$$

$$e_{i} = g(x_{i})(x_{i} - x_{i}) = \frac{(1+e^{0})}{e^{0}}(x_{i} - \frac{e^{0}}{1+e^{0}})$$

$$Z_{i} = x_{i}\beta + e_{i} = x_{i}\beta + \frac{(1+e^{x_{i}\beta_{i}})^{2}}{e^{x_{i}\beta_{i}}}(y_{i} - \frac{e^{x_{i}\beta_{i}}}{(1+e^{x_{i}\beta_{i}})})$$

$$(X^{T} w x x)^{T} = \{ (X_{1}^{T} ... X_{n}^{T}) \begin{pmatrix} w_{1} x_{1} \\ \vdots \\ w_{n} x_{n} \end{pmatrix} \}^{T}$$

$$(X^{T} w x x)^{T} = \{ (X_{1}^{T} ... X_{n}^{T}) \begin{pmatrix} w_{1} x_{1} \\ \vdots \\ w_{n} z_{n} \end{pmatrix} \}^{T}$$

$$W^{(h)}Z^{(h)} = \begin{pmatrix} W_1Z_1 \\ \vdots \\ W_nZ_n \end{pmatrix}$$

$$\circ \circ \beta^{ct+1}) = \left( \times^{T} \left( \frac{w_{1}x_{1}}{w_{n}x_{n}} \right) \right)^{T} \times^{T} \left( \frac{w_{1}z_{1}}{w_{n}z_{n}} \right)$$

Ist derivative: 
$$e(p) = x(y-\pi) = x[y-(1-\frac{1}{He}e^{2x})]$$