$\sum e^{XW} \frac{e^{W_y X} X - e^{W_y X} e^{W_y X} X}{P} = \frac{1}{D} (XP - XP^2) = X(P - XP^2)$

 $(\sum e^{XW})^2$

 $\partial J \qquad \partial J \quad \partial y$

 $\overline{\partial W_y} = \overline{\partial y} \, \overline{\partial W_y} = \overline{y} \, \overline{\partial W_y} = \overline{\frac{e^{W_y X}}{\sum e^{XW}}}$