$$\frac{R}{F_{K}} = \frac{Z}{2} = \frac{Z}{2} \left[(X_{5} - W_{15})^{2} \right]$$

$$= \frac{(X_{1} - W_{11})^{2} + (X_{2} - W_{12})^{2} + (X_{3} - W_{13})^{2} + \dots}{(X_{4} - W_{21})^{2} + (X_{2} - W_{12})^{2} + \dots}$$

$$\frac{SF}{SX_{K+1}} = \frac{f(X_{1} - W_{11})}{2(X_{4} - W_{21})} + \frac{2(X_{2} - W_{12})}{2(X_{2} - W_{22})} \dots$$

$$\frac{SF}{SX_{K+1}} = \frac{SF}{SX_{K+1}} \times \frac{SF_{LL}}{SX_{LL}}$$

$$\frac{SF_{LL}}{SX_{K+1}} = \frac{SF}{SX_{K+1}} \times \frac{SF_{LL}}{SX_{LL}}$$

$$\frac{SF_{LL}}{SX_{K+1}} = \frac{f(X_{1} - W_{11})}{2(X_{1} - W_{11})} + \frac{f(X_{2} - W_{12})}{2(X_{1} - W_{11})} \times \frac{f(X_{2} - W_{12})}{2(X_{1} - W_{11})} \dots$$

$$\frac{SF}{SX_{K+1}} = \frac{f(X_{1} - W_{11})^{2} + (X_{2} - W_{21})^{2} + \dots}{f(X_{2} - W_{21})^{2} + \dots}$$

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$$\frac{SF}{SX_{K+1}} = \frac{f(X_{1} - W_{11})^{2} + (X_{2} -$$

$$\frac{SE}{SW_{K}} = \frac{SE}{SX_{K}} \times \frac{Sf_{K}}{SW}$$

$$\frac{SF_{C}}{SW_{K}} = \begin{cases} -2(x_{1}-v_{1}) & -2(x_{2}-v_{1}) \\ \frac{s}{s} & \frac{s}{s} \end{cases}$$

$$= \begin{cases} \frac{SE}{SW_{K}} \times \frac{SF_{K}}{SW_{K}} \times \frac{SF_{K}}{SW_{K}$$

MUL POST SFIL Fx = (x, e) SFV = (CW 0 0 0 . - . 0)

SXXX = 0 0 0 0 . - . 0

0 0 0 0 0 . - . 0 SXX-1 = [P, Pz...] - P, e^w $\frac{SFic}{8w} = \begin{cases} x_1ew \\ x_2ew \end{cases} & S\frac{SE}{SX_K} = \begin{cases} P_1, P_2 \\ SX_K \end{cases}$ 5'E = [P, K, e w + 72 x2 e v + 73 x3 e v +]

i

Neg Exp
$$F_{KC} = \begin{cases} e^{x_1} \\ e^{x_2} \end{cases} \xrightarrow{SF_K} \begin{cases} SF_K \\ 0 & -e^{x_1} & 0 & 0 & 0 \end{cases}$$

$$\frac{SF_K}{SX_{K-1}} = \begin{cases} -e^{x_1} & 0 & 0 & 0 & 0 \end{cases}$$

$$\frac{SF_K}{SX_{K-1}} = \begin{cases} -e^{x_1} & 0 & 0 & 0 & 0 \end{cases}$$

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