$$\frac{a}{d} = (z - Sa) ka' (A - ba)$$

$$\frac{1}{2} \left(\frac{a}{a} \cos \right) = \|g\|^2 - \|a\|^2$$

$$\frac{1}{2} \left(\frac{a}{a} \cos \right) = \frac{a^{7} a}{a} = -2a$$

$$\frac{1}{2} \left(\frac{a}{a} \cos \right) = \frac{1}{2} \left(\frac{a}{a} \cos \right) = -2a$$

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$$\frac{1}{2} \left(\frac{a}{a} \cos$$

$$\frac{a}{a} = \begin{pmatrix} 1 & 0 & 0 \\ -3ayx & 1 & 0 \\ -3ax & -5ay & 1 \end{pmatrix} \begin{pmatrix} \frac{1}{kay} & \frac{1}{kay} \\ \frac{1}{kax} & \frac{1}{kay} \end{pmatrix} \begin{pmatrix} Ax - bay \\ Ay - bay \\ A\lambda - bax \end{pmatrix}$$

$$= \begin{pmatrix} \frac{1}{120x} (Ax - bax) \\ -\frac{30yx}{kex} (Ax - bax) \\ -\frac{5ayx}{kex} (Ax - bax) \\ -\frac{5ay}{kex} (Ax - bax) \end{pmatrix} - \frac{5ay}{kay} (Ay - bay) + \frac{1}{20a} (Aa - baa)$$

$$\frac{a}{120x} = \begin{pmatrix} 0 & 0 & 0 \\ -3ayx & 0 & 0 \\ -3ax & 0 & 0 \end{pmatrix}$$

$$\frac{a}{120x} = \begin{pmatrix} 0 & 0 & 0 \\ -3ayx & 0 & 0 \\ -3ax & 0 & 0 \end{pmatrix}$$

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$$\frac{a}{120x} = \begin{pmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \\ -3ax & 0 & 0 \end{pmatrix}$$

$$\frac{\partial a}{\partial S \alpha \gamma x} = \begin{pmatrix} 0 & \frac{\partial x}{\partial S \alpha y} & \frac{$$

$$\frac{\partial S_{G_0 \times}}{\partial S_{G_0 \times}} = \begin{pmatrix} 0 \\ \frac{\partial X}{\partial S_{G_0 \times}} \end{pmatrix} \rightarrow \frac{\partial Y}{\partial S_{G_0 \times}} = \begin{pmatrix} \frac{\partial Y}{\partial S_{G_0 \times}} \end{pmatrix}^{T} \cdot \begin{pmatrix} \frac{\partial G}{\partial S_{G_0 \times}} \end{pmatrix}$$

$$\frac{\partial e}{\partial Scay} = \left(\frac{\partial y}{\partial Scay} \right) = \frac{\partial y}{\partial Scay} = \left(\frac{\partial y}{\partial Scay} \right)^{T} \cdot \left(\frac{\partial e}{\partial Scay} \right)$$

$$\frac{\partial \underline{G}}{\partial k o x^{1}} = \begin{pmatrix} A x - b a x \\ -S a y x (A x - b c x) \end{pmatrix}$$

$$-S a x (A x - b a x)$$

$$\frac{\partial k \alpha x}{\partial k \alpha x} = -\frac{1}{(k \alpha x)^2}$$

 $kax' = \frac{1}{kax}$

$$= \frac{2G}{2kax} = \left(\frac{Ax - bax}{-Sayx(Ax - bax)}\right) \cdot \left(-\frac{1}{(kax)^2}\right)$$

$$-Scax(Ax - bax)$$

$$\frac{\partial \underline{\alpha}}{\partial k \alpha \alpha^{-1}} = \begin{pmatrix} 0 \\ 6 \\ A \alpha - b \alpha \lambda \end{pmatrix}$$

$$\frac{\partial \alpha}{\partial \log x} = \begin{pmatrix} -\frac{1}{\log x} \\ \frac{\partial \alpha}{\partial \log x} \\ \frac{\partial \alpha}{\partial \log x} \end{pmatrix} & \frac{\partial \alpha}{\partial \log x} = \begin{pmatrix} 0 \\ \frac{1}{\log x} \\ \frac{\partial \alpha}{\partial \log x} \\ \frac{\partial \alpha}{\partial \log x} \end{pmatrix} & \frac{\partial \alpha}{\partial \log x} \begin{pmatrix} 0 \\ 0 \\ \frac{1}{\log x} \\ \frac{\partial \alpha}{\partial \log x} \end{pmatrix} & \frac{\partial \alpha}{\partial \log x} \begin{pmatrix} 0 \\ 0 \\ \frac{1}{\log x} \\ \frac{\partial \alpha}{\partial \log x} \end{pmatrix}$$