$$U := \begin{bmatrix} \Delta^2\cdot\delta_q\cdot\delta_r & \Delta^2\cdot\delta_p\cdot\delta_r & \Delta^2\cdot\delta_p\cdot\delta_q & 1 \\ -\Delta^2\cdot\delta_q\cdot\delta_r & -\Delta^2\cdot\delta_p\cdot\delta_r & \Delta^2\cdot\delta_p\cdot\delta_q & 1 \\ -\Delta^2\cdot\delta_q\cdot\delta_r & \Delta^2\cdot\delta_p\cdot\delta_r & -\Delta^2\cdot\delta_p\cdot\delta_q & 1 \\ \Delta^2\cdot\delta_q\cdot\delta_r & -\Delta^2\cdot\delta_p\cdot\delta_r & -\Delta^2\cdot\delta_p\cdot\delta_q & 1 \end{bmatrix}$$

$$U := \begin{bmatrix} \Delta^2\,\delta_q\,\delta_r & \Delta^2\,\delta_p\,\delta_r & \Delta^2\,\delta_p\,\delta_q & 1 \\ -\Delta^2\,\delta_q\,\delta_r & -\Delta^2\,\delta_p\,\delta_r & \Delta^2\,\delta_p\,\delta_q & 1 \\ -\Delta^2\,\delta_q\,\delta_r & \Delta^2\,\delta_p\,\delta_r & -\Delta^2\,\delta_p\,\delta_q & 1 \\ \Delta^2\,\delta_q\,\delta_r & -\Delta^2\,\delta_p\,\delta_r & -\Delta^2\,\delta_p\,\delta_q & 1 \end{bmatrix} \quad \textbf{(1)}$$

$$V := \begin{bmatrix} \delta_p & -\delta_p & -\delta_p & \delta_p \\ \delta_q & -\delta_q & \delta_q & -\delta_q \\ \delta_r & \delta_r & -\delta_r & -\delta_r \\ \delta_p\delta_q\delta_r & \delta_p\delta_q\delta_r & \delta_p\delta_q\delta_r & \delta_p\delta_q\delta_r \end{bmatrix}$$

$$V := \begin{bmatrix} \delta_p & -\delta_p & -\delta_p & \delta_p \\ \delta_q & -\delta_q & \delta_q & -\delta_q \\ \delta_r & \delta_r & -\delta_r & -\delta_r \\ \delta_p\,\delta_q\,\delta_r & \delta_p\,\delta_q\,\delta_r & \delta_p\,\delta_q\,\delta_r & \delta_p\,\delta_q\,\delta_r \end{bmatrix} \quad \textbf{(2)}$$

$$a := \begin{bmatrix} a_1 \\ a_2 \\ a_3 \\ a_4 \end{bmatrix}$$

$$a := \begin{bmatrix} a_1 \\ a_2 \\ a_3 \\ a_4 \end{bmatrix} \quad \textbf{(3)}$$

$$T := simplify\left(V.\frac{((U\bullet a)\cdot\sim(U\bullet a))}{4\cdot\delta_p\delta_q\delta_r} \right)$$

$$T := \begin{bmatrix} 2\Delta^2\left(\Delta^2 a_2 a_3 \delta_p{}^2 + a_1 a_4\right) \\ 2\Delta^2\left(\Delta^2 a_1 a_3 \delta_q{}^2 + a_2 a_4\right) \\ 2\Delta^2\left(\Delta^2 a_1 a_2 \delta_r{}^2 + a_3 a_4\right) \\ \left(\left(a_2{}^2 \delta_r{}^2 + a_3{}^2 \delta_q{}^2\right)\delta_p{}^2 + a_1{}^2 \delta_q{}^2 \delta_r{}^2\right)\Delta^4 + a_4{}^2 \end{bmatrix} \tag{4}$$