

$$q \frac{u}{v_2} \left| \begin{array}{c} v_1 \\ w \end{array} \right. = \frac{a}{c} \left| \begin{array}{c} b \\ d \end{array} \right. \frac{u}{v_2} \left| \begin{array}{c} v_1 \\ w \end{array} \right. \frac{\alpha}{\gamma} \left| \begin{array}{c} \beta \\ \delta \end{array} \right.$$

$$qU = U \Leftrightarrow qz = \frac{a}{0} \left| \begin{array}{c} b \\ d \end{array} \right. z \frac{\alpha}{\gamma} \left| \begin{array}{c} 0 \\ \delta \end{array} \right.$$

$$\frac{\dot{u}}{0} \left| \begin{array}{c} 0 \\ 0 \end{array} \right. = q \frac{u}{0} \left| \begin{array}{c} 0 \\ 0 \end{array} \right. = \frac{a}{c} \left| \begin{array}{c} b \\ d \end{array} \right. \frac{u}{0} \left| \begin{array}{c} 0 \\ 0 \end{array} \right. \frac{\alpha}{\gamma} \left| \begin{array}{c} \beta \\ \delta \end{array} \right. = \frac{au}{cu} \left| \begin{array}{c} 0 \\ 0 \end{array} \right. \frac{\alpha}{\gamma} \left| \begin{array}{c} \beta \\ \delta \end{array} \right. = \frac{au\alpha}{cu\alpha} \left| \begin{array}{c} au\beta \\ cu\beta \end{array} \right. \Rightarrow \begin{cases} a \text{ inv } \alpha \\ c = 0 = \beta \end{cases}$$

$$\ddot{q}z = \frac{\ddot{a}}{\ddot{b}} \left| \begin{array}{c} 0 \\ \ddot{d} \end{array} \right. z \frac{\ddot{\alpha}}{0} \left| \begin{array}{c} \ddot{\gamma} \\ \ddot{\delta} \end{array} \right.$$

$$P_1 \ddot{q} = P_1 \ddot{q} P_1$$

$$\frac{\ddot{a}}{\ddot{b}} \left| \begin{array}{c} 0 \\ \ddot{d} \end{array} \right. \frac{u}{v_2} \left| \begin{array}{c} v_1 \\ w \end{array} \right. \frac{\ddot{\alpha}}{0} \left| \begin{array}{c} \ddot{\gamma} \\ \ddot{\delta} \end{array} \right. = \frac{\ddot{a}u}{x} \left| \begin{array}{c} x \\ x \end{array} \right. \frac{\ddot{\alpha}}{0} \left| \begin{array}{c} \ddot{\gamma} \\ \ddot{\delta} \end{array} \right. = \frac{\ddot{a}u\ddot{\alpha}}{x} \left| \begin{array}{c} x \\ x \end{array} \right.$$

$$\Delta_1 (P_1 \ddot{q} u) = \overline{\Delta_1 (qe)} \Delta_1 (u)$$

$$qu = au\alpha \Rightarrow \Delta_1 (qu) = \Delta (au\alpha) = \Delta_1 (a\alpha) \Delta_1 (u)$$

$$P_1 \ddot{q} u = \ddot{a} u \ddot{\alpha}$$

$$\Delta_1 (P_1 \ddot{q} u) = \Delta_1 (\ddot{a} u \ddot{\alpha}) = \Delta_1 (\ddot{a} \ddot{\alpha}) \Delta_1 (u)$$

$$\Delta_1 (\ddot{a} \ddot{\alpha}) = \Delta_1 (\ddot{\alpha} \ddot{a}) = \Delta_1 \left(\overline{\ddot{a} \ddot{\alpha}} \right) = \overline{\Delta_1 (aa)} = \bar{\Delta}_1 (qe)$$

$$\Delta_1 (P_1 \ddot{q} z) = \Delta_1 (P_1 \ddot{q} P_1 z) = \bar{\Delta}_1 (qe) \Delta_1 (P_1 z)$$

$$\tilde{\phi} (h) = {}^{he} K_b^m = {}^e K_{\dot{h}b}^m = {}^e K_{P_1 \dot{h}b}^m = \bar{\Delta}_1^m (P_1 \ddot{h}b)$$

$$\tilde{\phi}(hq) = \Delta_1^m(qe) \tilde{\phi}(h)$$

$$\text{LHS} = \bar{\Delta}_1^m \left(P_1 \widehat{hq} b \right) = \bar{\Delta}_1^m \left(P_1 \widehat{q} \widehat{hb} \right) = \Delta_1^m(qe) \bar{\Delta}_1^m \left(P_1 \widehat{hb} \right) = \text{RHS}$$