

$$\overbrace{\frac{\alpha}{\gamma} \left| \begin{array}{c} \beta \\ \delta \end{array} \right|_T^n}^{\zeta} \mathbf{1} = \overbrace{\frac{n}{\alpha + \zeta \gamma} \mathbf{1}}^{\frac{-1}{\alpha + \zeta \gamma} \underline{\beta + \zeta \delta}}$$

$$\overbrace{\frac{\alpha}{\gamma} \left| \begin{array}{c} \beta \\ \delta \end{array} \right|_T^n}^{\zeta} \mathbf{1} = \overbrace{\frac{\alpha}{\gamma} \left| \begin{array}{c} \beta \\ \delta \end{array} \right|_T^n}^{1|\zeta|} \tilde{\mathbf{1}} = \overbrace{1|\zeta| \times \frac{\alpha}{\gamma} \left| \begin{array}{c} \beta \\ \delta \end{array} \right|_T^n}^{\alpha + \zeta \gamma | \beta + \zeta \delta} \tilde{\mathbf{1}} = \overbrace{\frac{n}{\alpha + \zeta \delta} \mathbf{1}}^{\frac{-1}{\alpha + \zeta \gamma} \underline{\beta + \zeta \delta}}$$

$$\dot{\zeta} \zeta g = - \overbrace{\frac{-1}{\alpha + \zeta \gamma}}^{\dot{\zeta} \gamma} \dot{\zeta} \gamma \overbrace{\frac{-1}{\alpha + \zeta \gamma}}^{\dot{\beta} + \zeta \delta} \underline{\beta + \zeta \delta} + \overbrace{\frac{-1}{\alpha + \zeta \gamma}}^{\dot{\zeta} \delta} \dot{\zeta} \delta = \overbrace{\frac{-1}{\alpha + \zeta \gamma}}^{\dot{\zeta} \delta} \dot{\zeta} \delta - \overbrace{\gamma \alpha + \zeta \gamma}^{\dot{\beta} + \zeta \delta} \overbrace{\beta + \zeta \delta}^{\dot{\beta} + \zeta \delta}$$

$$\overbrace{\frac{\overset{*}{\alpha}}{\beta} \left| \begin{array}{c} \overset{*}{\gamma} \\ \overset{*}{\delta} \end{array} \right|_T^n}^{\zeta} {}_T G_{-\omega}^n = {}_T G_{-\omega}^n \overbrace{\frac{\alpha}{\gamma} \left| \begin{array}{c} \beta \\ \delta \end{array} \right|_T^n}^{\overset{*}{\alpha} + \overset{*}{\gamma} \overset{*}{\omega}}$$

$$\overbrace{\frac{\overset{*}{\alpha}}{\beta} \left| \begin{array}{c} \overset{*}{\gamma} \\ \overset{*}{\delta} \end{array} \right|_T^n}^{\zeta} {}_T G_{-\omega}^n = \overbrace{\overset{*}{\alpha} + \zeta \overset{*}{\beta}}^n \overbrace{\frac{-1}{\overset{*}{\alpha} + \zeta \overset{*}{\beta}} \frac{\overset{*}{\gamma} + \zeta \overset{*}{\delta}}{T} {}_T G_{-\omega}^n}^{\overset{*}{\alpha} + \zeta \overset{*}{\beta}} = \overbrace{\overset{*}{\alpha} + \zeta \overset{*}{\beta}}^n \overbrace{\frac{n}{1 + \underbrace{\overset{*}{\alpha} + \zeta \overset{*}{\beta}}_{-1} \frac{\overset{*}{\gamma} + \zeta \overset{*}{\delta}}{\overset{*}{\alpha} + \zeta \overset{*}{\beta}} \overset{*}{\omega}}}^{\overset{*}{\alpha} + \zeta \overset{*}{\beta} + \overset{*}{\gamma} + \zeta \overset{*}{\delta} \overset{*}{\omega}}$$

$$= \overbrace{\overset{*}{\alpha} + \zeta \overset{*}{\beta} + \overset{*}{\gamma} + \zeta \overset{*}{\delta} \overset{*}{\omega}}^n = \overbrace{\overset{*}{\alpha} + \overset{*}{\gamma} \overset{*}{\omega} + \zeta \underbrace{\overset{*}{\beta} + \overset{*}{\delta} \overset{*}{\omega}}_n}^n = \overbrace{1 + \zeta \underbrace{\overset{*}{\beta} + \overset{*}{\delta} \overset{*}{\omega}}_{-1} \frac{\overset{*}{\alpha} + \overset{*}{\gamma} \overset{*}{\omega}}{\overset{*}{\alpha} + \overset{*}{\gamma} \overset{*}{\omega}}}^n \overbrace{\overset{*}{\alpha} + \overset{*}{\gamma} \overset{*}{\omega}}^n$$

$$= \overbrace{1 + \zeta \underbrace{\overset{*}{\alpha} + \omega \gamma \underline{\beta + \omega \delta}}_{-1}}^n \overbrace{\overset{*}{\alpha} + \overset{*}{\gamma} \overset{*}{\omega}}^n = {}_T G_{-\omega \frac{-1}{\alpha + \omega \gamma} \underline{\beta + \omega \delta}}^n \overbrace{\overset{*}{\alpha} + \overset{*}{\gamma} \overset{*}{\omega}}^n = {}_T G_{-\omega \frac{\alpha}{\gamma} \left| \begin{array}{c} \beta \\ \delta \end{array} \right|_T^n}^n \overbrace{\overset{*}{\alpha} + \overset{*}{\gamma} \overset{*}{\omega}}^n$$

$$\overbrace{\frac{\overset{*}{\alpha}}{0} \left| \begin{array}{c} \overset{*}{\gamma} \\ \overset{*}{\delta} \end{array} \right|_T^n}^{\zeta} {}_T G_{-\omega}^n = {}_T G_{-\omega \frac{\alpha}{\gamma} \left| \begin{array}{c} 0 \\ \delta \end{array} \right|_T^n}^n \overbrace{\overset{*}{\alpha} + \overset{*}{\gamma} \overset{*}{\omega}}^n = {}_T G_{-\omega \frac{-1}{\alpha + \omega \gamma} \omega \delta}^n \overbrace{\overset{*}{\alpha} + \overset{*}{\gamma} \overset{*}{\omega}}^n$$

$${}^w \widetilde{F} = {}^{wz} g F \det \left(1 + \frac{-1}{a + zc} wc \right)^n$$