

$$z = \frac{a}{c} \left| \begin{array}{c} b \\ d \end{array} \right.$$

$$\frac{\overline{I-z}}{\overline{I-z}} \underline{I+z} = \frac{\overline{1-a-b\underbrace{1-d}_{-1}c}\overline{1+a+b\underbrace{1-d}_{-1}c}}{\overline{2\underbrace{1-d-c\underbrace{1-a}_{-1}b}_{-1}c\overline{1-a}}}\left| \begin{array}{c} \overline{2\overline{1-a-b\underbrace{1-d}_{-1}c}b\overline{1-d}} \\ \overline{1-d-c\underbrace{1-a}_{-1}b}\overline{1+d+c\underbrace{1-a}_{-1}b} \end{array} \right.$$

$$\overline{1+a+b\underbrace{1-d}_{-1}c}\overline{1-a}-2b\underbrace{1-d}_{-1}c=\overline{1-a-b\underbrace{1-d}_{-1}c}\overline{1+a}$$

$$2b-\overline{1+a+b\underbrace{1-d}_{-1}c}b=\overline{1-a-b\underbrace{1-d}_{-1}c}b$$

$$2c-\overline{1+d+c\underbrace{1-a}_{-1}b}c=\overline{1-d-c\underbrace{1-a}_{-1}b}c$$

$$\overline{1+d+c\underbrace{1-a}_{-1}b}\overline{1-d}-2c\underbrace{1-a}_{-1}b=\overline{1-d-c\underbrace{1-a}_{-1}b}\overline{1+d}$$

$$\text{RHS } \underline{I-z} = \text{RHS } \frac{1-a}{-c} \left| \begin{array}{c} -b \\ 1-d \end{array} \right. =$$

$$\frac{\overline{1-a-b\underbrace{1-d}_{-1}c}\left(\overline{1+a+b\underbrace{1-d}_{-1}c}\overline{1-a}-2b\underbrace{1-d}_{-1}c\right)}{\overline{1-d-c\underbrace{1-a}_{-1}b}\left(2c-\overline{1+d+c\underbrace{1-a}_{-1}b}c\right)}\left| \begin{array}{c} \overline{1-a-b\underbrace{1-d}_{-1}c}\left(2b-\overline{1+a+b\underbrace{1-d}_{-1}c}b\right) \\ \overline{1-d-c\underbrace{1-a}_{-1}b}\left(\overline{1+d+c\underbrace{1-a}_{-1}b}\overline{1-d}-2c\underbrace{1-a}_{-1}b\right) \end{array} \right.$$

$$= \frac{1+a}{c} \left| \begin{array}{c} d \\ 1+d \end{array} \right. = I+z$$

$$z = \frac{a}{0} \left| \begin{array}{c} 0 \\ -a \end{array} \right.$$

$$\begin{aligned} \frac{\overline{J-z}}{\overline{J-z}} \underline{J+z} &= \frac{\overline{-a}}{\overline{-1}} \left| \begin{array}{c} 1 \\ a \end{array} \right. \frac{\overline{a}}{\overline{-1}} \left| \begin{array}{c} 1 \\ -a \end{array} \right. = \frac{\overline{a}\overline{1-a^2}}{\overline{1-a^2}} \left| \begin{array}{c} \overline{a^2-1} \\ \overline{a}\overline{a^2-1} \end{array} \right. \frac{\overline{a}}{\overline{-1}} \left| \begin{array}{c} 1 \\ -a \end{array} \right. \\ &= \frac{\overline{1-a^2}\overline{1+a^2}}{\overline{2a}\overline{1-a^2}} \left| \begin{array}{c} \overline{2a}\overline{1-a^2} \\ \overline{1+a^2}\overline{1-a^2} \end{array} \right. \\ z &= \frac{0}{b} \left| \begin{array}{c} b \\ 0 \end{array} \right. \end{aligned}$$

$$\overbrace{\mathcal{J} - z}^{-1} \overbrace{\mathcal{J} + z} = \frac{0}{-1-b} \begin{vmatrix} 1-b \\ 0 \end{vmatrix} \frac{0}{b-1} \begin{vmatrix} b+1 \\ 0 \end{vmatrix} = \frac{0}{\underbrace{1-b}_{-1}} \begin{vmatrix} \overbrace{-1+b}^{-1} \\ 0 \end{vmatrix} \frac{0}{b-1} \begin{vmatrix} b+1 \\ 0 \end{vmatrix} = \frac{\overbrace{1+b}^{-1} \overbrace{1-b}^{-1}}{0} \begin{vmatrix} 0 \\ \underbrace{1-b}_{-1} \underbrace{1+b} \end{vmatrix}$$