

① معادله ۱: $(a+1)x - ay + (b-a)z = a-c$

معادله ۲: $(1-c)x + cy - cz = b$

معادله ۳: $cx + c^2y + z = 1+bc$

$$\left[\begin{array}{ccc|c} a+1 & -a & b-a & a-c \\ (1-c) & c & -c & b \\ (c) & (c^2) & 1 & 1+bc \end{array} \right]$$

① ② ③

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① $(a+1)\square + c = 0$
 $\square = \frac{-c}{a+1}$

$$\left[\begin{array}{ccc|c} a+1 & -a & b-a & a-c \\ 1-c & c & -c & b \\ 0 & \frac{ac}{a+1} + c^2 & \frac{ac-bc}{a+1} + 1 & \frac{c^2-ac}{a+1} + 1+bc \end{array} \right]$$

② $(a+1)x\square + 1-c = 0$
 $\square = \frac{c-1}{a+1}$

$$\frac{bc - \cancel{ac} - b - c + a}{a+1}$$

$$\begin{array}{c} \frac{a+c}{a+1} \\ \hline \begin{array}{ccc} a+1 & -a & b-a & a-c \\ \hline 0 & -a\left(\frac{c-1}{a+1}\right)+c & (b-a)\left(\frac{c-1}{a+1}\right)-c & \\ 0 & \frac{ac}{a+1}+c^p & \frac{ac-bc}{a+1}+1 & \frac{c^p-ac}{a+1}+1+bc \end{array} \end{array}$$

$(a-c)\left(\frac{c-1}{a+1}\right)+b$
 $\frac{ac - a + c^p - c + ab + b}{a+1}$

$$\begin{array}{c} a+1 \quad -a \quad b-a \quad a-c \\ \hline 0 \quad \frac{a+c}{a+1} \quad \frac{bc - \cancel{ac} - b - c + a}{a+1} \quad \frac{ac - a + c^p - c + ab + b}{a+1} \\ \hline 0 \quad 0 \quad \alpha \quad \beta \end{array}$$

$$\frac{a+c}{a+1} \times \square + \frac{ac}{a+1} + c^p = 0 \quad \square = \frac{-ac^p - c^p - ac}{a+c} \text{ (1)}$$

$$\alpha = \left(\frac{-ac^p - c^p - ac}{a+c} \right) \left(\frac{bc - \cancel{ac} - b - c + a}{a+1} \right) + \frac{ac - bc}{a+1} + 1 =$$

$$\alpha = \frac{-bc^p + c^p - ac^p + ac + c^p + c^p a - bc^p a + \cancel{ac^p} a + \cancel{c^p} a + c + a^p + a}{(a+1)(a+c)}$$

$$\beta = \left(\frac{ac - a + c^r - c + ab + b}{a+1} \right) \left(\frac{-ac^r - c^r - ac}{a+c} \right) + \underbrace{\frac{c^r - ac}{a+1} + 1 + bc}_{\Rightarrow}$$

$$\frac{acb + cb + a + 1 + c^r - ac}{a+1} \Rightarrow$$

$$\beta = \frac{-ac^r - ac^r - c^r + c^r + a^r - ac^r + ac + c^r - ac^r b - ac^r b + a + c}{(a+1)(a+c)}$$

$$\alpha Z = \beta \quad Z = \frac{\beta}{\alpha} \quad = \text{New } \alpha \quad : \text{New } \beta$$

$$Z = \frac{-ac^r - ac^r - c^r + c^r + a^r - ac^r + ac + c^r - ac^r b - ac^r b + a + c}{-bc^r + c^r - ac^r + ac + c^r a + c^r ac - bc^r a + c^r a^r + c^r a^r + c + a + a^r}$$

$$\left(\frac{a+c}{a+1} \right) y + \left(\frac{bc - c^r ac - b - c + a}{a+1} \right) z = \frac{ac - a + c^r - c + ab + b}{a+1}$$

$$y = \left(\frac{ac - a + c^r - c + ab + b}{a+b} \right) - \left(\frac{bc - c^r ac - b - c + a}{a+1} \right) z$$

$$\left(\frac{a+c}{a+1} \right)$$

$$(a+1)x - ay + (b-a)z = a - c \quad x = \frac{(a-c) - (b-a)z - ay}{(a+1)}$$