

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

این موارد باید در نهایت صفر بشوند.

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

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

$a+1$	$-a$	$b-a$	$a-c$
0	$-a\left(\frac{c-1}{a+1}\right) + c$	$(b-a)\left(\frac{c-1}{a+1}\right) - c$	$(a-c)\left(\frac{c-1}{a+1}\right) + b$
0	$\frac{ac}{a+1} + c^p$	$\frac{ac-bc}{a+1} + 1$	$\frac{c^p - ac}{a+1} + 1 + bc$

$$\frac{ac - a + c^p - c + ab + b}{a+1}$$

$a+1$	$-a$	$b-a$	$a-c$
0	$\frac{a+c}{a+1}$	$\frac{bc - \cancel{ac} - b - c + a}{a+1}$	$\frac{ac - a + c^p - c + ab + b}{a+1}$
0	α	α	β

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

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

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

$$\beta = \left(\frac{ac - a + c' - c + ab + b}{a+1} \right) \left(\frac{ac + ac' + c'}{a+c} \right) + \frac{c' - ac}{a+1} + 1 + bc$$

$$\frac{(ac - a + c' - c + ab + b)(ac + ac' + c') + (c' - ac + a + 1 + abc + bc)}{(a+1)(a+c)}$$

$$= \frac{a'c'' + ac'' + c^2 - 2a'c + ac^2 + a + a' + c'c'b + ac - 2ac' + 2ac'b +}{(a+1)(a+c)}$$

$$a'c''b + 2ac'b + 2c'c'b + c$$

$$\alpha z = \beta$$

$$= \text{مساوی : مساوی}$$

$$z = \frac{a'c'' + ac'' + c^2 - 2a'c + ac^2 + a + a' + c'c'b + ac - 2ac' + 2ac'b + a'c''b + 2ac'b + 2c'c'b + c}{a' + 2a'c - 2ac'' - c'' - a'c' + c''b - c''b + ac' + ac - 2ac'b + ac''b - 2a'c'' + c}$$

$$\left(\frac{a+c}{a+1} \right) y + \left(\frac{bc - 2ac - b - c + a}{a+1} \right) z = \frac{ac - a + c' - c + ab + b}{a+1}$$

$$y = \left(\frac{ac - a + c' - c + ab + b}{a+b} \right) - \left(\frac{bc - 2ac - b - c + a}{a+1} \right) z$$

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

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

P4PCO

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