

$$\left(\begin{array}{ccc|c} 1 & 1 & n & n \\ 1 & & n & 0 \\ & 1 & n & 1 \end{array} \right) \sim \left(\begin{array}{ccc|c} 1 & & n & 0 \\ & 1 & n & 1 \\ & & -n & n-1 \end{array} \right)$$

$$n=0: \quad 0n = -1 \Rightarrow NR \bar{E} \bar{S}$$

$$n \neq 0:$$

$$\left(\begin{array}{ccc|c} 1 & & & n-1 \\ & 1 & & n \\ & & -1 & n-1 \end{array} \right)$$

$$x = n-1$$

$$y = n$$

$$z = \frac{1+n}{n}$$

$$\left(\begin{array}{ccc|c} n & 1 & 1 & 1 \\ 1 & n & 1 & n \\ 1 & 1 & n & n^2 \end{array} \right) \sim \left(\begin{array}{ccc|c} 1 & 1 & n & n^2 \\ n-1 & 1-n & 1-n & n-n^2 \\ 1-n & 1-n^2 & 1-n^3 & \end{array} \right) \sim$$

$$\left(\begin{array}{ccc|c} 1 & 1 & n & n^2 \\ n-1 & 1-n & 1-n & n-n^2 \\ 2-n & 1-n^2 & 1-n^3 & \end{array} \right) \xrightarrow{(n-1)(n+2)} \left(\begin{array}{ccc|c} 1 & 1 & n & n^2 \\ n-1 & 1-n & 1-n & n-n^2 \\ 2-n & 1-n^2 & 1-n^3 & \end{array} \right)$$

$$n=1: \quad 0n = 0: \quad \left(\begin{array}{ccc|c} 1 & 1 & 1 & 1 \\ 0 & 0 & 0 & 1 \end{array} \right) \Rightarrow NR$$

$$n=2: \quad 0n = 3 = 2n \bar{R}$$

$$\left(\begin{array}{ccc|c} n-1 & n^2-1 & n^3-n^2-n & n^2 \\ n-1 & 1-n & n-n^2 & \\ (n-1)(n+2) & 1+n-n^2-n^3 & \end{array} \right) \sim$$

$$x = \frac{(n-2)(n^3-n^2+n) + (n+1)(1+n-n^2-n^3)}{(n-1)(n+2)(n+1)} \quad y = \frac{(n+2)(n-n^2) + 1-n^2-n^3}{(n-1)(n+2)} \quad z = \frac{1+n-n^2-n^3}{(n-1)(n+2)}$$