Q. CHEN BOYCH LU SIM BOY FORTH.

$$3\chi_1 - 0.1 \chi_2 - 0.2\chi_3 = 7.85 \cdots 0$$
 $0.1\chi_1 + 7\chi_2 - 0.3\chi_3 = -19.3 \cdots 0$ 
 $0.3\chi_1 - 0.2\chi_2 + 10\chi_3 = 71.4 \cdots 0$ 

$$\Rightarrow \begin{bmatrix} 3 & -0.1 & -0.2 \\ 0.1 & 7 & -0.3 \\ 0.1 & 7 & -0.3 \\ 0.3 & -0.2 & 10 \end{bmatrix} \begin{bmatrix} \chi_1 \chi_2 \\ \chi_2 \end{bmatrix} = \begin{bmatrix} 7.85 \\ -19.3 \\ 71.4 \end{bmatrix}$$
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1) 
$$\frac{1}{2}\frac{1}{2}\frac{1}{2}$$
 (1)  $\frac{1}{2}\frac{1}{2}=\frac{1}{2}\frac{1}{2}$ 

$$\Rightarrow 0.1Z_{1} - \frac{0.01}{3}Z_{2} - \frac{0.02}{3}X_{3} = \frac{0.1}{3} \times 1.85 \dots \mathbb{D}_{2}$$

$$(2)(2)' = (2) - (1)'$$

$$(2)(2)' = (2) - (1)_{2}'$$

$$= > + (1 + \frac{99}{3})\chi_2 + (-0.3 + \frac{9002}{3})\chi_3 = -19.3 - \frac{9.1}{3}\chi_{1.85}$$

$$= > \frac{2101}{3}\chi_{1.85} - \frac{22}{3}\chi_{1.85}$$

$$= \frac{2}{300}\chi_{2} - \frac{22}{75}\chi_{3} = -\frac{11737}{600}\dots 2$$

$$(3) 0_{3}' = 0 \times 031 = 13$$

$$= 0.3.7$$

$$(3) \bigcirc_{3}' = \bigcirc \times \bigcirc_{31} = \underbrace{1}_{31}$$

=> 
$$0.3 Z_1 - 0.01 Z_2 - 0.02 Z_3 = 0.785 ... 0_3$$

$$(4)(3)'=(3)-(1)_3'$$

$$(5) 2_3'' = 2' \times 0 = 10.02 \times 3 = 10.02 \times$$

$$= 3 - 0.10 \chi_2 + \frac{38}{38} \chi_3 = \frac{20273}{38200} \dots 20_3''$$

$$= 3 - 20273 \dots 20_3''$$

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$$(6)$$
3" = 3' - 2"

$$=> \frac{|a|23}{|a|o} \chi_3 = \frac{|3386|}{|a|o} \dots 3''$$

$$\begin{bmatrix} | a | 0 \\ | 3 - 0 | - 0.2 \\ | 0 | 2 | 0 \\ | 0 | 19 | 23 \\ | 9 | 0 \end{bmatrix}$$

2) 
$$\frac{1}{2} \frac{1}{2} \frac$$

$$= \begin{cases} 3 & -0.1 & -0.2 \\ 0 & \frac{2101}{300} & -\frac{22}{75} \\ 0 & \frac{10123}{1910} \end{cases} \cdot \begin{cases} 7 & 7.85 \\ 7 & 7.85 \\ 7 & 7.85 \end{cases}$$

$$\chi_3 = \frac{1910}{19123} \times 70.0843 = 7.00003$$

$$\mathcal{A}_2 = \frac{300}{2101} \times \left(-19.5617 + \frac{22}{75}\mathcal{A}_3\right) = -2.5$$

$$\chi_1 = \frac{1}{3} \times (7.85 + 0.12 + 0.22 \times 3) = 3$$

$$\begin{cases} 2 & 1 \\ 0 & 2 \\ 2 & 3 \\ 2 & 3 \end{cases} = \begin{cases} 3 \\ -2.5 \\ 7.00003 \end{cases}$$