$$\rightarrow \begin{array}{c|ccccc} -1 & 0 & 0 & 1 & \lambda+6 \\ -1 & -1 & -1 & 1 & 2 \\ 1 & 1 & 0 & \mu-9 & -2\lambda-34 \\ -4 & -1 & 0 & 9 & 14 \end{array}$$

$$\rightarrow \begin{pmatrix} 1 & 0 & 0 & 1 & \lambda + 6 \\ 0 & 0 & -1 & -11 & -3\lambda - 30 \\ 0 & 0 & 0 & \mu + 3 & \lambda - 2 \\ 0 & -1 & 0 & 13 & 4\lambda + 38 \end{pmatrix} -1$$

$$\rightarrow \begin{pmatrix} 1 & 0 & 0 & 1 & \lambda + 6 \\ 0 & 0 & 1 & 11 & 3\lambda + 30 \\ 0 & 0 & 0 & \mu + 3 & \lambda - 2 \\ 0 & -1 & 0 & 13 & 4\lambda + 38 \end{pmatrix}$$

$$\begin{vmatrix} x_1 & + & x_4 & = & \lambda + 6 \\ x_3 & + & 11x_4 & = & 3\lambda + 30 \\ & & (\mu + 3)x_4 & = & \lambda - 2 \\ -x_2 & + & 13x_4 & = & 4\lambda + 38 \end{vmatrix}$$

I
$$\mu = -3$$

I.1
$$\lambda = 2$$

$$\rightarrow \left| \begin{array}{ccccc} x_1 & + & x_4 & = & \lambda + 6 \\ x_3 & + & 11x_4 & = & 3\lambda + 30 \\ -x_2 & + & 13x_4 & = & 4\lambda + 38 \end{array} \right|$$

$$x_4 = p$$

$$\begin{vmatrix} x_1 & + & p & = & \lambda + 6 \\ x_3 & + & 11p & = & 3\lambda + 30 \\ -x_2 & + & 13p & = & 4\lambda + 38 \end{vmatrix}$$

$$\rightarrow \begin{vmatrix} x_1 & = & \lambda + 6 - p \\ x_3 & = & 3\lambda + 30 - 11p \\ x_2 & = & 13p - 4\lambda - 38 \end{vmatrix}$$

I.2 $\lambda \neq 2$

II $\mu \neq -3$

II.1 $\lambda = 2$

$$\begin{vmatrix} x_1 & + & x_4 & = & \lambda + 6 \\ x_3 & + & 11x_4 & = & 3\lambda + 30 \\ & & (\mu + 3)x_4 & = & 0 \\ -x_2 & + & 13x_4 & = & 4\lambda + 38 \end{vmatrix}$$

II.2 $\lambda \neq 2$

$$\begin{vmatrix} x_1 & + & x_4 & = & \lambda + 6 \\ x_3 & + & 11x_4 & = & 3\lambda + 30 \\ & & (\mu + 3)x_4 & = & \lambda - 2 \\ -x_2 & + & 13x_4 & = & 4\lambda + 38 \end{vmatrix}$$