$$\frac{1}{20} = \frac{1}{100} = \frac{1}$$

$$\begin{cases}
\frac{1}{2} + \left(\begin{bmatrix} 1 \\ 1 \end{bmatrix}\right) = \begin{bmatrix} 1 \\ 2 \end{bmatrix}, \quad \frac{1}{2} = \begin{bmatrix} 2 \\ 3 \end{bmatrix} = \begin{bmatrix} 2 \\ 3 \end{bmatrix}, \quad \begin{bmatrix} 2 \\ 2 + 3 \\ 2 - 1 \end{bmatrix}$$

$$\begin{bmatrix} 1 \\ 2 \end{bmatrix} = \begin{bmatrix} 1 \\ 2 \end{bmatrix} + \begin{bmatrix} 2 \\ 2 \end{bmatrix} = \begin{bmatrix} 1 \\ 3 \end{bmatrix}, \quad \begin{bmatrix} 2 \\ 2 - 1 \end{bmatrix}, \quad \begin{bmatrix} 2 \\ 2 - 1 \end{bmatrix}$$

$$\begin{bmatrix} 2 \\ 3 \end{bmatrix} = \begin{bmatrix} 1 \\ 2 \end{bmatrix}, \quad \begin{bmatrix} 2 \\ 2 - 1 \end{bmatrix}, \quad \begin{bmatrix} 2 \\ 2 - 1 \end{bmatrix}$$

$$\begin{bmatrix} 3 \\ 4 \end{bmatrix}, \quad \begin{bmatrix} 4 \\ 13 \\ 4 \end{bmatrix}, \quad \begin{bmatrix} 4 \\ 13 \\ 4 \end{bmatrix}, \quad \begin{bmatrix} 4 \\ 2 - 1 \end{bmatrix}$$

$$\begin{bmatrix} 0 \\ 1 \end{bmatrix} = K_{1} \begin{bmatrix} 1 \\ 1 \end{bmatrix} + K_{2} \begin{bmatrix} 2 \\ 3 \end{bmatrix} = \begin{bmatrix} 1 & 2 \\ 1 & 3 \end{bmatrix} \begin{bmatrix} k_{1} \\ k_{2} \end{bmatrix} = \begin{bmatrix} 1 & 2 \\ 1 & 3 \end{bmatrix} \begin{bmatrix} k_{1} \\ k_{2} \end{bmatrix} \begin{bmatrix} k_{1} + 7 & k_{2} = 7 \\ k_{1} + 7 & k_{2} = 7 \end{bmatrix}$$

$$\begin{bmatrix} (1 \\ 1 \\ 1 \end{bmatrix} = 3 \times T[I_{1}] + I - I) \times T[I_{2}] = \begin{bmatrix} 3 + 2 \\ 6 - 5 \end{bmatrix} = \begin{bmatrix} 5 \\ -1 \\ 1 \end{bmatrix}$$

$$\begin{bmatrix} (1 \\ 1 \\ 1 \end{bmatrix} = -2 \times T[I_{1}] + I \times T[I_{2}] = \begin{bmatrix} -2 - 2 \\ 4 + 5 \end{bmatrix} = \begin{bmatrix} -4 \\ 9 \end{bmatrix}$$

T : T(T(e))|T(e)| = [-1] = [-1] (1.10)  $300 + \chi_2 = 400 + \chi_3 = 0$   $\chi_2 - \chi_3 = 100$ 

3) d) 
$$\frac{1}{300} + \frac{1}{12} - \frac{400}{13} + \frac{1}{13} = \frac{1}{100}$$
 $\frac{1}{12} + \frac{1}{100} = \frac{250}{12} + \frac{1}{12} + \frac{1}{12} = \frac{1}{100}$ 
 $\frac{1}{12} + \frac{1}{100} = \frac{2}{100} + \frac{1}{12} = \frac{1}{100}$ 

b) 
$$\lambda_2 - \lambda_3 = 100$$
 $-\lambda_1 + \lambda_4 = 500$ 
 $-\lambda_1 + \lambda_4 = 500$ 
 $-\lambda_1 + \lambda_4 = 500$ 
 $\lambda_1 - \lambda_2 = 100 + \lambda_3 = -500 + \lambda_4 = 100 + \lambda_5 = 100 + \lambda_5$