NAME: USMAN GIFT AMIRA

DEPARTMENT: CHEMICAL ENGINEERING

MATRIC NUMBER: 17/ENG01/031

A) GUASS ELIMINATION METHOD WITH MICROSOFT EXCEL

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9	0	0	0	-5.14286	-1.14286	9.428571		Т4		-48.4286	1.714286				
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6	0	0	4.666667	-4	-8.66667	2.666667		T3		-33					
7	0	0	0	-5.14286	-1.14286	9.428571		T4		-48.4286					
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5	0	0	0	-5.14286	-1.14286	9.428571		Т4		-48.4286					
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B) GAUSS ELIMINATION METHOD WITH THE AID OF MATHCAD

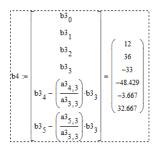
$$= \begin{bmatrix} a_{1,0} - \left\lfloor \frac{1,0}{a_{0,0}} \right\rfloor (a_{0,0}) & a_{1,1} - \left\lfloor \frac{1,0}{a_{0,0}} \right\rfloor (a_{0,1}) & a_{1,2} - \left\lfloor \frac{1,0}{a_{0,0}} \right\rfloor (a_{0,2}) & a_{1,3} - \left\lfloor \frac{1,0}{a_{0,0}} \right\rfloor (a_{0,3}) & a_{1,4} - \left\lfloor \frac{1,0}{a_{0,0}} \right\rfloor (a_{0,4}) & a_{1,5} - \left\lfloor \frac{1,0}{a_{0,0}} \right\rfloor (a_{0,5}) \\ a_{2,0} - \left\lfloor \frac{a_{2,0}}{a_{0,0}} \right\rfloor (a_{0,0}) & a_{2,1} - \left\lfloor \frac{a_{2,0}}{a_{0,0}} \right\rfloor (a_{0,2}) & a_{2,3} - \left\lfloor \frac{a_{2,0}}{a_{0,0}} \right\rfloor (a_{0,3}) & a_{2,4} - \left\lfloor \frac{a_{3,0}}{a_{0,0}} \right\rfloor (a_{0,4}) & a_{2,5} - \left\lfloor \frac{a_{3,0}}{a_{0,0}} \right\rfloor (a_{0,2}) & a_{3,3} - \left\lfloor \frac{a_{3,0}}{a_{0,0}} \right\rfloor (a_{0,3}) & a_{3,4} - \left\lfloor \frac{a_{3,0}}{a_{0,0}} \right\rfloor (a_{0,4}) & a_{3,5} - \left\lfloor \frac{a_{3,0}}{a_{0,0}} \right\rfloor (a_{0,5}) \\ a_{4,0} - \left\lfloor \frac{a_{4,0}}{a_{0,0}} \right\rfloor (a_{0,0}) & a_{4,1} - \left\lfloor \frac{a_{4,0}}{a_{0,0}} \right\rfloor (a_{0,1}) & a_{4,2} - \left\lfloor \frac{a_{4,0}}{a_{0,0}} \right\rfloor (a_{0,2}) & a_{4,3} - \left\lfloor \frac{a_{4,0}}{a_{0,0}} \right\rfloor (a_{0,3}) & a_{4,4} - \left\lfloor \frac{a_{4,0}}{a_{0,0}} \right\rfloor (a_{0,4}) & a_{5,5} - \left\lfloor \frac{a_{4,0}}{a_{0,0}} \right\rfloor (a_{0,5}) \\ a_{5,0} - \left\lfloor \frac{a_{5,0}}{a_{0,0}} \right\rfloor (a_{0,0}) & a_{4,1} - \left\lfloor \frac{a_{4,0}}{a_{0,0}} \right\rfloor (a_{0,1}) & a_{5,2} - \left\lfloor \frac{a_{5,0}}{a_{0,0}} \right\rfloor (a_{0,2}) & a_{5,3} - \left\lfloor \frac{a_{5,0}}{a_{0,0}} \right\rfloor (a_{0,3}) & a_{5,4} - \left\lfloor \frac{a_{5,0}}{a_{0,0}} \right\rfloor (a_{0,4}) & a_{5,5} - \left\lfloor \frac{a_{5,0}}{a_{0,0}} \right\rfloor (a_{0,5}) \\ a_{5,0} - \left\lfloor \frac{a_{5,0}}{a_{0,0}} \right\rfloor (a_{0,0}) & a_{5,1} - \left\lfloor \frac{a_{5,0}}{a_{0,0}} \right\rfloor (a_{0,2}) & a_{5,3} - \left\lfloor \frac{a_{5,0}}{a_{0,0}} \right\rfloor (a_{0,3}) & a_{5,4} - \left\lfloor \frac{a_{5,0}}{a_{0,0}} \right\rfloor (a_{0,4}) & a_{5,5} - \left\lfloor \frac{a_{5,0}}{a_{0,0}} \right\rfloor (a_{0,5}) \\ a_{5,0} - \left\lfloor \frac{a_{5,0}}{a_{0,0}} \right\rfloor (a_{0,1}) & a_{5,2} - \left\lfloor \frac{a_{5,0}}{a_{0,0}} \right\rfloor (a_{0,2}) & a_{5,3} - \left\lfloor \frac{a_{5,0}}{a_{0,0}} \right\rfloor (a_{0,3}) & a_{5,4} - \left\lfloor \frac{a_{5,0}}{a_{0,0}} \right\rfloor (a_{0,4}) & a_{5,5} - \left\lfloor \frac{a_{5,0}}{a_{0,0}} \right\rfloor (a_{0,3}) & a_{5,4} - \left\lfloor \frac{a_{5,0}}{a_{0,0}} \right\rfloor (a_{0,3}) & a_{5,4} - \left\lfloor \frac{a_{5,0}}{a_{0,0}} \right\rfloor (a_{0,3}) & a_{5,5} - \left\lfloor \frac{a_{5,0}}{a_{0,0}} \right\rfloor (a_{0,3}) &$$

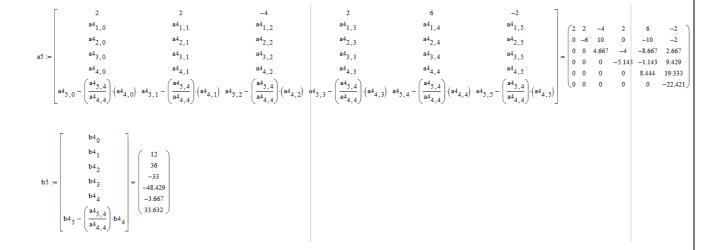
$$\left| \begin{array}{c} b_{4} = \left(\frac{a_{4}}{b_{0}}_{0}\right) b_{0} \\ b_{5} = \left(\frac{a_{5}}{a_{0}}_{0}\right) b_{0} \end{array} \right|^{-\left(-129\right)} \\ \\ = \left(\frac{2}{b_{1}}_{0} - \left(\frac{a_{1}}{a_{1,1}}\right) \left(a_{1,0}\right) a_{1,1} - \left(\frac{a_{1}}{a_{1,1}}\right) \left(a_{1,1}\right) a_{1,2,2} - \left(\frac{a_{1,2}}{a_{1,1}}\right) \left(a_{1,2}\right) \\ = \left(\frac{a_{1,0}}{a_{1,0}} - \left(\frac{a_{1,1}}{a_{1,1}}\right) \left(a_{1,0}\right) a_{1,1} - \left(\frac{a_{1,2}}{a_{1,1}}\right) \left(a_{1,1}\right) a_{1,2,2} - \left(\frac{a_{1,2}}{a_{1,1}}\right) \left(a_{1,2}\right) \\ = \left(\frac{a_{1,0}}{a_{1,0}} - \left(\frac{a_{1,1}}{a_{1,1}}\right) \left(a_{1,0}\right) a_{1,1} - \left(\frac{a_{1,2}}{a_{1,1}}\right) \left(a_{1,1}\right) a_{1,2,2} - \left(\frac{a_{1,2}}{a_{1,1}}\right) \left(a_{1,2}\right) \\ = \left(\frac{a_{1,0}}{a_{1,0}} - \left(\frac{a_{1,1}}{a_{1,1}}\right) \left(a_{1,0}\right) a_{1,1} - \left(\frac{a_{1,2}}{a_{1,1}}\right) \left(a_{1,1}\right) a_{1,2,2} - \left(\frac{a_{1,2}}{a_{1,1}}\right) \left(a_{1,2}\right) \\ = \left(\frac{a_{1,0}}{a_{1,0}} - \left(\frac{a_{1,1}}{a_{1,1}}\right) \left(a_{1,0}\right) a_{1,1} - \left(\frac{a_{1,2}}{a_{1,1}}\right) \left(a_{1,1}\right) a_{1,2,2} - \left(\frac{a_{1,2}}{a_{1,1}}\right) \left(a_{1,2}\right) \\ = \left(\frac{a_{1,0}}{a_{1,0}} - \left(\frac{a_{1,1}}{a_{1,1}}\right) \left(a_{1,0}\right) a_{1,1} - \left(\frac{a_{1,1}}{a_{1,1}}\right) \left(a_{1,1}\right) a_{1,2,2} - \left(\frac{a_{1,2}}{a_{1,1}}\right) \left(a_{1,2}\right) \\ = \left(\frac{a_{1,0}}{a_{1,0}} - \left(\frac{a_{1,1}}{a_{1,1}}\right) \left(a_{1,0}\right) a_{1,1} - \left(\frac{a_{1,1}}{a_{1,1}}\right) \left(a_{1,1}\right) a_{1,2,2} - \left(\frac{a_{1,1}}{a_{1,1}}\right) \left(a_{1,2}\right) \\ = \left(\frac{a_{1,0}}{a_{1,0}} - \left(\frac{a_{1,1}}{a_{1,1}}\right) \left(a_{1,0}\right) a_{1,1} - \left(\frac{a_{1,1}}{a_{1,1}}\right) \left(a_{1,1}\right) a_{1,2,2} - \left(\frac{a_{1,1}}{a_{1,1}}\right) \left(a_{1,2}\right) \\ = \left(\frac{a_{1,0}}{a_{1,0}} - \left(\frac{a_{1,1}}{a_{1,1}}\right) \left(a_{1,0}\right) a_{1,1} - \left(\frac{a_{1,1}}{a_{1,1}}\right) \left(a_{1,1}\right) a_{1,2,2} - \left(\frac{a_{1,1}}{a_{1,1}}\right) \left(a_{1,2}\right) \right) \\ = \left(\frac{a_{1,0}}{a_{1,0}} - \left(\frac{a_{1,0}}{a_{1,1}}\right) \left(a_{1,0}\right) a_{1,1} - \left(\frac{a_{1,0}}{a_{1,1}}\right) \left(a_{1,1}\right) a_{1,2,2} - \left(\frac{a_{1,1}}{a_{1,1}}\right) \left(a_{1,2}\right) \right) \\ = \left(\frac{a_{1,0}}{a_{1,0}} - \left(\frac{a_{1,0}}{a_{1,1}}\right) \left(a_{1,0}\right) a_{1,2,2} - \left(\frac{a_{1,0}}{a_{1,1}}\right) \left(a_{1,2,2}\right) a_{1,3,3} - \left(\frac{a_{1,0}}{a_{1,1}}\right) \left(a_{1,1,3}\right) a_{1,2,3} - \left(\frac{a_{1,0}}{a_{1,1}}\right) \left(a_{1,1,3}\right) a_{1,2,3} - \left(\frac{a_{1,0}}{a_{1,1}}\right) \left(a_{1,1,3}\right) a_{1,2,3} - \left(\frac{a_{1,0}}{a_{1,1}}\right) \left(a_{1,1,3}\right) a_{1,3,3} - \left(\frac{a_{1,0}}{a_{1,1}}\right) \left(a_{1,1,3$$

				1								_
	2	2	-4	2	6	-2						
	a2 _{1,0}	^{a2} 1,1	^{a2} 1,2	a2 _{1,3}	^{a2} 1,4	a2 _{1,5}						
	a2 _{2,0}	a2 _{2,1}	a2 _{2,2}	a22,3	^{a2} 2,4	a22,5	(2	2 -4	2	6	-2)	
	$(a^{2}_{3,2})$	$(a_{3,2})$	$(a^{2}_{3,2})(-2) = 2$	$\binom{a^2}{3,2}$	$\binom{a^2}{3,2}$	$\binom{a^2}{3,2}$	0	-6 10	0	-10	-2	
a3 :=	$a_{23,0} - (\overline{a_{2,2}^{2}}) \cdot (a_{2,0}^{2})$	$a_{23,1} = \left(\frac{a_{2,2}}{a_{2,2}} \right) \cdot (a_{2,1})$	$a_{3,2}^2 - \left(\frac{a_{3,2}^2}{a_{2,2}^2}\right) \cdot \left(a_{2,2}^2\right) = a_{2,2}^2$	$a_{2,2}^{3,3} = \left(\overline{a_{2,2}^{2,3}} \right)^{(a_{2,3}^{2,3})}$	$a_{23,4} = \left(\frac{a_{2,2}}{a_{2,2}}\right) \cdot \left(a_{2,4}\right) = a_{2,4}$	$a_{23,5} = \left(\frac{a_{2,2}}{a_{2,2}}\right) \cdot \left(a_{2,5}\right)$	= 0	0 4.667		8.667		.
	$\begin{pmatrix} a_{2} \\ a_{4,2} \end{pmatrix}$	$\begin{pmatrix} a_{4,2} \end{pmatrix}$	$\begin{pmatrix} a_{4,2} \end{pmatrix}$	$\begin{pmatrix} a_{4,2} \end{pmatrix}$	$\begin{pmatrix} a_{4,2} \end{pmatrix}$	$\begin{pmatrix} a_{4,2} \end{pmatrix}$	0		-5.143	1.143 10.857		
	$a^{2}_{4,0} - \left(\frac{1}{a^{2}_{2,2}}\right) \cdot (a^{2}_{2,0})$	$\mathbf{a}^{2}_{4,1} - \left(\frac{\mathbf{a}^{2}_{2,2}}{\mathbf{a}^{2}_{2,2}}\right) \cdot \left(\mathbf{a}^{2}_{2,1}\right)$	$a_{4,2}^2 - \left(\frac{a_{4,2}^2}{a_{2,2}^2}\right) \cdot \left(a_{2,2}^2\right) = a_{2,2}^2$	$a_{1,3} = \left(\frac{a_{2,3}}{a_{2,2}}\right) \cdot (a_{2,3})$	$a_{4,4}^2 - \left(\frac{a_{2,2}^2}{a_{2,2}^2}\right) \cdot \left(a_{2,4}^2\right) + a_{2,4}^2$	$a^{2}_{4,5} - \left(\frac{a^{2}_{2,2}}{a^{2}_{2,2}}\right) \cdot \left(a^{2}_{2,5}\right)$	0	0 0	-7.429		-3.714	
	$\left[a_{2_{5,0}}^{2}-\left(\frac{a_{2_{5,2}}^{2}}{a_{2_{2,2}}^{2}}\right)\cdot\left(a_{2_{2,0}}^{2}\right)\right]$	$a_{25,1}^2 - \left(\frac{a_{25,2}^2}{a_{22,2}^2}\right) \cdot \left(a_{22,1}^2\right)$	$a_{25,2}^2 - \left(\frac{a_{25,2}^2}{a_{22,2}^2}\right) \cdot \left(a_{22,2}^2\right) = a_{22,2}^2$	$_{5,3} - \left(\frac{a_{2,2}^{2}}{a_{2,2}^{2}}\right) \cdot \left(a_{2,3}^{2}\right)$	$a_{25,4}^2 - \left(\frac{a_{25,2}^2}{a_{22,2}^2}\right) \cdot \left(a_{22,4}^2\right) =$	$a_{2_{5,5}}^{a_{2_{5,2}}} - \left(\frac{a_{2_{5,2}}^{a_{2_{5,2}}}}{a_{2_{2,2}}^{a_{2_{5,5}}}}\right) \cdot \left(a_{2_{2,5}}^{a_{2_{5,5}}}\right)$						

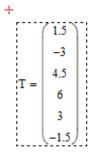
$$b_{3} := \begin{bmatrix} b_{2} \\ b_{2} \\ b_{2} \\ b_{2} \\ b_{2} \\ b_{2} \\ c_{3} - \left(\frac{a_{2}^{2} \\ a_{2,2}^{2} \right) \cdot b_{2} \\ b_{2} \\ b_{2} \\ c_{4} - \left(\frac{a_{2}^{2} \\ a_{2,2}^{2} \right) \cdot b_{2} \\ b_{2} \\ b_{2} \\ c_{5} - \left(\frac{a_{2}^{2} \\ c_{2,2}^{2} \right) \cdot b_{2} \\ c_{5} \\ c_{5}$$

Γ	2	2	-4	2	6	-2	1						
	a3 _{1,0}	a3 _{1,1}	a3 _{1,2}	a3 _{1,3}	a3 _{1,4}	a3 _{1,5}							
	a32,0	a32,1	a32,2	a32,3	a32,4	a32,5		$\begin{pmatrix} 2 & 2 \\ 0 & c \end{pmatrix}$	-4	2	6	-2 -2	
	a33.0	a33,1	a33.2	a33,3	a33.4	a33.5		0 -0	4.667	-4	-8.667	-	
a4 :=	$\begin{pmatrix} a_{4} \\ a_{4} \end{pmatrix}$	$\begin{pmatrix} a_{4} \\ a_{4} \end{pmatrix}$	$\begin{pmatrix} a_{4,3} \end{pmatrix}$	(a34,3)	(a ³ 4,3)	$\begin{pmatrix} a_{4} \\ a_{4} \end{pmatrix}$	=	0 0	0	-5.143	-1.143	9.429	
	$a_{4,0}^3 - \left(\frac{1}{a_{3,0}^3}\right) \cdot \left(a_{3,0}^3\right)$	$a_{4,1}^3 - \left(\frac{1}{a_{3,3}^3}\right) \cdot \left(a_{3,1}^3\right) = a_{3,1}^3$	$a_{4,2} = \left(\frac{1}{a_{3,3}}\right) \cdot \left(a_{3,2}\right) = a_{3,3}$	$4_{,3} = \left(\frac{1}{a_{3,3}^{2}}\right) \cdot \left(a_{3,3}^{2}\right)$	$a_{4,4}^3 - \left(\frac{1}{a_{3,3}^3}\right) \cdot \left(a_{3,4}^3\right) a_{3,4}^3$	$a_{1,5} = \left(\frac{1}{a_{3,3}^{2}}\right) \cdot \left(a_{3,5}^{2}\right)$		0 0	0	0	8.444	19.333	
	$\begin{pmatrix} a_{3,3} \end{pmatrix}$	(a35 2)	(a35 2)	$\begin{pmatrix} a_{5,3} \end{pmatrix}$	(a3, 2)	(a3, 2)		(0 0	0	0	2.222	-17.333)	
	$a_{5,0}^{3} - \left(\frac{3,3}{a_{3,3}^{3}}\right) \cdot \left(a_{3,0}^{3}\right)$	$a_{5,1}^3 - \left(\frac{5,5}{a_{3,3}^3}\right) \cdot \left(a_{3,1}^3\right) = a_{5,1}^3$	$a_{5,2} = \left(\frac{3,3}{a_{3,3}}\right) \cdot \left(a_{3,2}\right) a_{3,3}$	$s_{5,3} = \left(\frac{3,3}{a_{3,3}}\right) \cdot \left(a_{3,3}\right)$	$a_{5,4}^3 - \left(\frac{3,3}{a_{3,3}^3}\right) \cdot \left(a_{3,4}^3\right) a_{3,4}^3$	$5,5 - \left(\frac{3,3}{a_{3,3}}\right) \cdot \left(a_{3,5}\right)$							
		< -1=2	< - <i>i</i> */	×	× -752	× -1+2	÷						





$$\begin{split} & \mathcal{J}_{\delta} := \frac{\mathbf{b}^{5}_{5}}{\mathbf{a}^{5}_{5,5}} = -1.5 \\ & \mathbf{T}_{4} := \frac{\mathbf{b}^{5}_{4} - \left(\mathbf{a}^{5}_{4,5}\cdot\mathbf{T}_{5}\right)}{\mathbf{a}^{5}_{4,4}} = 3 \\ & \mathbf{T}_{3} := \frac{\mathbf{b}^{5}_{3} - \left(\mathbf{a}^{5}_{3,5}\cdot\mathbf{T}_{5}\right) - \left(\mathbf{a}^{5}_{3,4}\cdot\mathbf{T}_{4}\right)}{\mathbf{a}^{5}_{3,3}} = 6 \\ & \mathbf{T}_{2} := \frac{\mathbf{b}^{5}_{2} - \left(\mathbf{a}^{5}_{2,5}\cdot\mathbf{T}_{5}\right) - \left(\mathbf{a}^{5}_{2,4}\cdot\mathbf{T}_{4}\right) - \left(\mathbf{a}^{5}_{2,3}\cdot\mathbf{T}_{3}\right)}{\mathbf{a}^{5}_{2,2}} = 4.5 \\ & \mathbf{T}_{1} := \frac{\mathbf{b}^{5}_{1} - \left(\mathbf{a}^{5}_{1,5}\cdot\mathbf{T}_{5}\right) - \left(\mathbf{a}^{5}_{1,4}\cdot\mathbf{T}_{4}\right) - \left(\mathbf{a}^{5}_{1,3}\cdot\mathbf{T}_{3}\right) - \left(\mathbf{a}^{5}_{1,2}\cdot\mathbf{T}_{2}\right)}{\mathbf{a}^{5}_{1,1}} = -3 \\ & \mathbf{T}_{0} := \frac{\mathbf{b}^{5}_{0} - \left(\mathbf{a}^{5}_{0,5}\cdot\mathbf{T}_{5}\right) - \left(\mathbf{a}^{5}_{0,4}\cdot\mathbf{T}_{4}\right) - \left(\mathbf{a}^{5}_{0,3}\cdot\mathbf{T}_{3}\right) - \left(\mathbf{a}^{5}_{0,2}\cdot\mathbf{T}_{2}\right) - \left(\mathbf{a}^{5}_{0,1}\cdot\mathbf{T}_{1}\right)}{\mathbf{a}^{5}_{0,0}} = 1.5 \end{split}$$

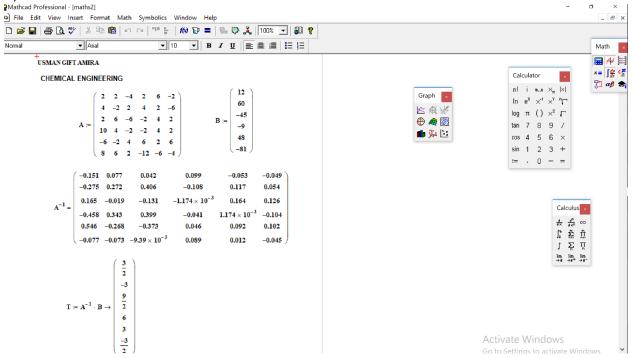


C) MATRIX INVERSE METHOD WITH THE AID OF MICROSOFT EXCEL

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9 4	4^1	X=A^1*B						В									
0		-0.15141	0.077465	0.042254	0.098592	-0.05282	-0.0493		1.5								
1		-0.27465	0.2723	0.406103	-0.10798	0.117371	0.053991		-3								
2		0.165493	-0.01878	-0.13146	-0.00117	0.164319	0.125587		4.5								
3		-0.45775	0.342723	0.399061	-0.04108	0.001174	-0.10446		6								
4		0.545775	-0.26761	-0.37324	0.045775	0.091549	0.102113		3								
5		-0.07746	-0.07277	-0.00939	0.089202	0.011737	-0.0446		-1.5								
6																	

D)MATRIX INVERSE METHOD WITH THE AID OF MATHCAD

Mathcad Professional - [maths2]



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