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 MATRIC NO: 181ENG041060
 DEPT: Elect/Elect

Assignment

$$\begin{cases} x_1 - 2x_2 - x_3 + 3x_4 = 10 \\ 2x_1 + 3x_2 + x_4 = 8 \\ x_1 - 4x_3 + 2x_4 = 3 \\ x_2 + 3x_3 + x_4 = -7 \end{cases}$$

$$A = \begin{bmatrix} 1 & -2 & -1 & 3 \\ 2 & 3 & 0 & 1 \\ 1 & 0 & -4 & -2 \\ 0 & -1 & 3 & 1 \end{bmatrix} \quad B = \begin{bmatrix} 10 \\ 8 \\ 3 \\ -7 \end{bmatrix}$$

$$C = A^{-1} \cdot B \quad C = \begin{bmatrix} -1 \\ 2 \\ -3 \\ 4 \end{bmatrix}$$

t	y	t	y	t	y	t	y
0	-1.0000	1.4	1.6375	2.8	5.0617	4.2	8.7980
0.1	-0.8955	1.5	1.8637	2.9	5.3223	4.3	9.0692
0.2	-0.7024	1.6	2.0935	3.0	5.5841	4.4	9.3402
0.3	-0.5413	1.7	2.3266	3.1	5.8473	4.5	9.6112
0.4	-0.3926	1.8	2.5628	3.2	6.1116	4.6	9.8821
0.5	-0.1969	1.9	2.8021	3.3	6.3720	4.7	10.1529
0.6	0.0046	2.0	3.0441	3.4	6.6413	4.8	10.4230
0.7	0.1738	2.1	3.2887	3.5	6.9106	4.9	10.6935
0.8	0.3681	2.2	3.5351	3.6	7.1787	5.0	10.9632
0.9	0.5879	2.3	3.7832	3.7	7.4474	5.1	11.2325
1.0	0.7927	2.4	4.0367	3.8	7.7167	5.2	11.5012
1.1	0.9824	2.5	4.2903	3.9	7.9866	5.3	11.7692
1.2	1.1966	2.6	4.5458	4.0	8.2568	5.4	12.0365
1.3	1.4150	2.7	4.8030	4.1	8.5274	5.5	12.3031

t	y	t	y	t	y	t	y
5.6	12.5622	6.8	15.6664	8.0	18.5256	9.2	21.0933
5.7	12.8335	6.9	15.9131	8.1	18.7538	9.3	21.2510
5.8	13.0973	7.0	16.1622	8.2	18.9770	9.4	21.4764
5.9	13.3600	7.1	16.4074	8.3	19.1970	9.5	21.6644
6.0	13.6216	7.2	16.6509	8.4	19.4166	9.6	21.8600
6.1	13.8820	7.3	16.8925	8.5	19.6331	9.7	22.0482
6.2	14.1412	7.4	17.1322	8.6	19.8472	9.8	22.2241
6.3	14.3990	7.5	17.3700	8.7	20.0591	9.9	22.4675
6.4	14.6555	7.6	17.6058	8.8	20.2686	10.0	22.5981
6.5	14.9105	7.7	17.8396	8.9	20.4758		
6.6	15.1600	7.8	18.0714	9.0	20.6807		
6.7	15.4160	7.9	18.3009	9.1	20.8830		

