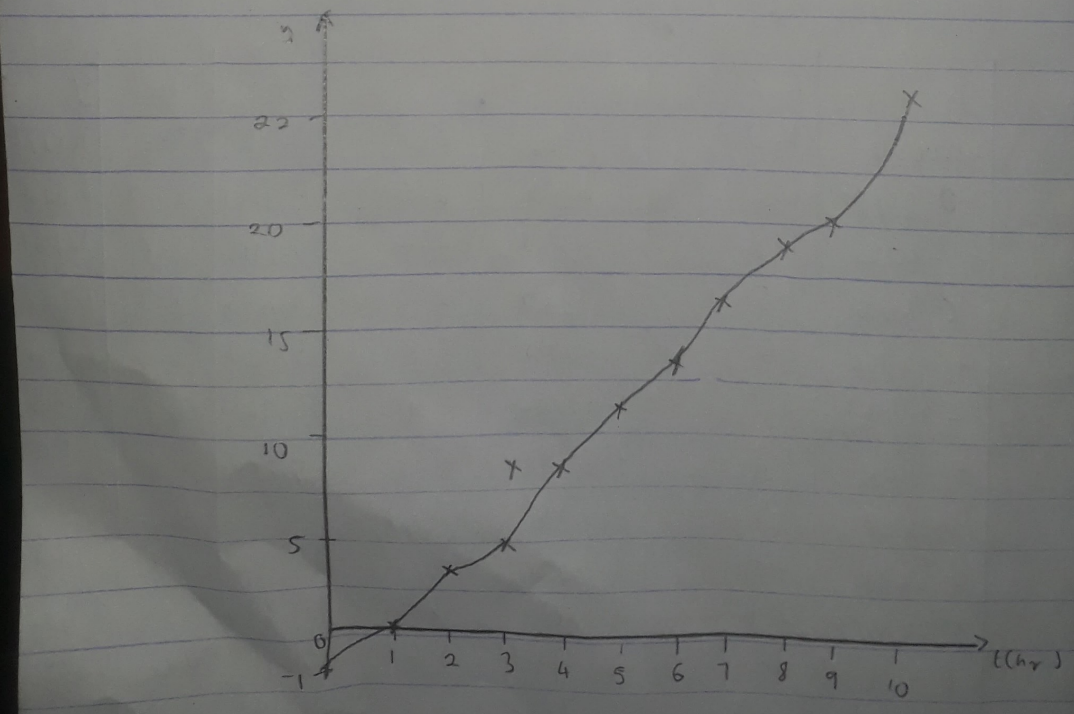
t	y	t	y	t	y	t	y
4.8	10.4230	6.4	14.6555	8.0	18.5280	9.7	21.0[illegible]
4.9	10.6935	6.5	14.9105	8.1	18.7538	9.8	22.224
5.0	10.9682	6.6	15.1640	8.2	18.9770	9.9	22.4[illegible]
5.1	11.2325	6.7	15.4160	8.3	19.1974	10.0	22.[illegible]
5.2	11.5012	6.8	15.6664	8.4	19.4166		
5.3	11.7672	6.9	15.9151	8.5	19.6331		
5.4	12.0365	7.0	16.1622	8.6	19.8472		
5.5	12.3031	7.1	16.4074	8.7	20.0591		
5.6	12.5622	7.2	16.6509	8.8	20.2686		
5.7	12.8338	7.3	16.8925	8.9	20.4758		
5.8	13.0973	7.4	17.1322	9.0 9.1	20.6809 20.883		
5.9	13.3600	7.5	17.3700	9.2	21.0833		
6.0	13.6216	7.6	17.6058	9.3	21.2810		
6.1	13.8820	7.7	17.8396	9.4	21.4764		
6.2	14.1412	7.8	18.0714	9.5	21.6694		
6.3	14.3990	7.9	18.3009	9.6	21.8600		



NAME: AMADI-OUNU, C. MELVIN

MAT NO: 18/ENG04/013

MATH HOMEWORK

Mat cad

1.

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

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

$$C = A^{-1} \cdot B$$

$$C = \begin{bmatrix} -1 \\ 2 \\ -3 \\ 4 \end{bmatrix}$$

2)

t	y	t	y	t	y	t	y
0	-1.0000	1.2	1.1966	2.4	4.0367	3.6	7.1787
0.1	-0.8555	1.3	1.4150	2.5	4.2903	3.7	7.4476
0.2	-0.7024	1.4	1.6375	2.6	4.5458	3.8	7.7167
0.3	-0.5413	1.5	1.8637	2.7	4.8030	3.9	7.9866
0.4	-0.3726	1.6	2.0935	2.8	5.0617	4.0	8.2568
0.5	-0.1969	1.7	2.3266	2.9	5.3223	4.1	8.5276
0.6	-0.0146	1.8	2.5628	3.0	5.5841	4.2	8.7990
0.7	0.1738	1.9	2.8021	3.1	5.8473	4.3	9.0692
0.8	0.3681	2.0	3.0441	3.2	6.1116	4.4	9.3402
0.9	0.5679	2.1	3.2887	3.3	6.3720	4.5	9.6112
1.0	0.7727	2.2	3.5358	3.4	6.6483	4.6	9.8821
1.1	0.9824	2.3	3.7852	3.5	6.9106	4.7	10.1529