

SHEKONI OLOWASEYITAN

BIOMEDICAL ENGINEERING

18/ENGL021087

ENG 282 ASSIGNMENT V

QUESTION 1 (a) and (b)

- ⇒ 1200 gal of water
150 lb of salt ⇒ m.
- In ⇒ 50 gal each containing (1 + sin t) lb of salt
- out ⇒ 30 gal/min

$$\frac{dm}{dt} = M_{in} - M_{out}$$

$$\bullet M_{in} = 50 \frac{\text{gal}}{\text{min}} \times (1 + \sin t) \frac{\text{lb}}{\text{gal}} = 50(1 + \sin t)$$

$$\bullet M_{out} = \frac{30}{1200} = 0.025 = 2.5\% \text{ of } m$$

$$\frac{dm}{dt} = 50(1 + \sin t) - 2.5\% \text{ of } m$$

$$\frac{dm}{dt} = 50(1 + \sin t) - 0.025m$$

* Compare with $\frac{dy}{dx} + Py = Q$

$$\Rightarrow \frac{dm}{dt} + 0.025m = 50(1 + \sin t)$$

$$\therefore P = 0.025$$

$$\text{I.F.} = e^{\int P dt} \Rightarrow e^{\int 0.025 dt} = e^{0.025t}$$

$$\Rightarrow m \cdot \text{I.F.} = \int Q \cdot \text{I.F.} dt$$

$$\Rightarrow m \cdot e^{0.025t} = \int (50 + 50 \sin t) \cdot (e^{0.025t}) dt$$

RHS

$$\Rightarrow \int 50(1 + \sin t) \cdot e^{t/40} dt$$

$$\Rightarrow 50 \int e^{t/40} (\sin t + 1) dt$$

$$\Rightarrow \int e^{t/40} (\sin t + 1) dt \quad \text{"solving each"}$$

$$\text{let } u = \frac{t}{40}; \frac{du}{dt} = \frac{1}{40}, dt = 40 du.$$

$$\Rightarrow \int e^u (\sin(40u) + 1) 40 du$$

$$\Rightarrow 40 \int e^u (\sin(40u) + 1) du$$

$$\int f g' = f g - \int f' g$$

$$\text{let } f = \sin(40u) + 1, g' = e^u$$

$$f' = 40 \cos(40u), g = e^u$$

$$= e^u (\sin(40u) + 1) - \int 40 e^u \cos(40u) du$$

$$\int 40 e^u \cos(40u) du = 40 \int e^u \cos(40u) du$$

$$\int e^u \cos(40u) du$$

$$\int f g' = f g - \int f' g$$

$$f = \cos(40u), g' = e^u$$

$$f' = -40 \sin(40u), g = e^u$$

$$\Rightarrow e^u \cos(40u) - \int -40 e^u \sin(40u) du$$

again...

$$f = -40 \sin(40u), g' = e^u$$

$$f' = -1600 \cos(40u), g = e^u$$

$$\Rightarrow e^u \cos(40u) - (-40 e^u \sin(40u)) - \int -1600 e^u \cos(40u) du$$

$$\Rightarrow e^u \cos(40u) - (-40 e^u \sin(40u) + 1600 \int e^u \cos(40u) du)$$

$$\Rightarrow 40 e^u \sin(40u) + e^u \cos(40u)$$

1601

$$\text{recurs } 40 \int e^u \cos(40u) du$$

$$\Rightarrow 40 (40 e^u \sin(40u) + e^u \cos(40u))$$

1601

also,

$$e^u(\sin(40u)+1) - \int 40e^u \cos(40u) du$$
$$\Rightarrow \frac{e^u(\sin(40u)+1) - 40(40e^u \sin(40u) + e^u \cos(40u))}{1601}$$

multiply through by 40

$$\Rightarrow \frac{40e^u(\sin(40u)+1) - 1600(40e^u \sin(40u) + e^u \cos(40u))}{1601}$$

recall, $u = t/40$

$$\Rightarrow \frac{40^{t/40}(\sin t + 1) - 1600(40^{t/40} \sin t + e^{t/40} \cos t)}{1601}$$

multiply through by 50

$$\Rightarrow \frac{2000e^{t/40}(\sin t + 1) - 80000(40e^{t/40} \sin t + e^{t/40} \cos t)}{1601}$$

$$\Rightarrow \frac{2000^{t/40}(\sin t + 1) - 80000(40e^{t/40} \sin t + e^{t/40} \cos t)}{1601} + C$$

$$\Rightarrow \frac{2000e^{t/40}(\sin t - 40 \cos t + 1601) + C}{1601}$$

$$\Rightarrow m e^{0.025t} = \frac{2000e^{t/40}(\sin t - 40 \cos t + 1601) + C}{1601}$$

at $t=0$ (initially) $m = 150$

let $C = m_0$

$$m_0 = \frac{150 \cdot e^{0.025(0)}}{e^{0.025(0)}} = \frac{2000(0 - 40 + 1601)}{1601}$$

$$m_0 = -1800.03123$$

$$m = \frac{2000e^{t/40}(\sin t - 40 \cos t + 1601) - 1800.03123}{1601 e^{t/40}}$$

$$m = \frac{2000e^{t/40}(\sin t - 40 \cos t + 1601) - 1800.03123}{1601 e^{t/40}}$$

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```

1 - commandwindow
2 - clear
3 - clc
4 - close all
5 - syms m t
6 - s=dsolve('Dm+(0.025*m) =50*(1+sin(t))','m(0)=150')
7 - tn=0:0.5:450
8 - sn=subs(s,tn)
9 - plot(tn,sn)
10 - grid on
11 - grid minor
12 - ylabel('Amount of Salt in Tank')
13 - xlabel('Time(t (min))')
14
15
16

```

Figure 1

Amount of Salt in Tank

Time(t (min))

sn =

$$\left[150, 2000 - (2000 \cdot 1601^{1/2}) \cos(\text{atan}(1/40) + 1/2) \right] / 1601 -$$

Workspace

Name	Value
sn	[150, 2000 - (2000*1601^(1/2)*cos(atan(1/40) + 1/2))/1601 -

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```

1 - commandwindow
2 - clear
3 - clc
4 - close all
5 - ta=2:2:500
6 - tb=1:2:500
7 - y=(50/0.05)+((50/1.0025)*sin(tb))+((50*0.05)/(1.0025))*cos(tb)-802.49*exp(-0.05*tb)
8 - ym=1000-(800*exp(-0.05*ta))
9 - yg=[y ym]
10 - tg=[ta tb]
11 - plot (tg,yg)
12 - grid on
13 - grid minor
14 - xlabel ('V(litre)')
15 - ylabel ('T(min)')
16 - col_header={'t (min)', 'v (litre)'}
17 - xlswrite('C:\Users\Seyitan\Documents\MATLAB\odevbesdata.xlsx', [tg(:), yg(:)], 'veriler', 'A2')
18 - xlswrite('C:\Users\Seyitan\Documents\MATLAB\odevbesdata.xlsx', col_header, 'veriler', 'A1')

```

Current Folder

Workspace

1x2 cell array

```

{'t (min)'} {'v (litre)'}

```

Figure 1

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	t(min)	v(litre)																			
2	2	279.9639																			
3	4	313.8601																			
4	6	327.9009																			
5	8	469.1423																			
6	10	506.5922																			
7	12	487.1398																			
8	14	604.2824																			
9	16	651.4694																			
10	18	608.3676																			
11	20	699.585																			
12	22	759.541																			
13	24	702.3679																			
14	26	765.9535																			
15	28	838.9333																			
16	30	776.7953																			
17	32	811.8028																			
18	34	895.7197																			
19	36	836.9388																			
20	38	843.6308																			
21	40	934.561																			
22	42	886.318																			
23	44	866.4219																			
24	46	959.1673																			
25	48	977.1558																			

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25	48	927.1558																			
26	50	883.9312																			
27	52	972.6189																			
28	54	960.76																			
29	56	898.8906																			
30	58	977.5784																			
31	60	987.8325																			
32	62	913.1659																			
33	64	976.4171																			
34	66	1008.72																			
35	68	927.8846																			
36	70	971.2768																			
37	72	1023.612																			
38	74	943.5523																			
39	76	964.0851																			
40	78	1032.697																			
41	80	960.1637																			
42	82	956.5397																			
43	84	1036.269																			
44	86	977.3165																			
45	88	950.0748																			
46	90	1034.797																			
47	92	994.3264																			
48	94	945.8226																			
49	96	1078.956																			

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
145	288	954.1169																			
146	290	1001.17																			
147	292	1044.908																			
148	294	961.4523																			
149	296	987.1737																			
150	298	1049.222																			
151	300	971.8582																			
152	302	974.1994																			
153	304	1049.615																			
154	306	984.506																			
155	308	963.2803																			
156	310	1046.055																			
157	312	998.3879																			
158	314	955.2862																			
159	316	1038.827																			
160	318	1012.398																			
161	320	950.854																			
162	322	1028.505																			
163	324	1025.421																			
164	326	950.3367																			
165	328	1015.913																			
166	330	1036.418																			
167	332	953.7756																			
168	334	1002.054																			
169	336	1044.515																			

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
169	336	1044.515																			
170	338	960.8966																			
171	340	988.0303																			
172	342	1049.066																			
173	344	971.1326																			
174	346	974.9605																			
175	348	1049.708																			
176	350	983.6682																			
177	352	963.8853																			
178	354	1046.39																			
179	356	997.5047																			
180	358	955.687																			
181	360	1039.377																			
182	362	1011.54																			
183	364	951.0186																			
184	366	1029.227																			
185	368	1024.656																			
186	370	950.252																			
187	372	1016.749																			
188	374	1035.808																			
189	376	953.4484																			
190	378	1002.937																			
191	380	1044.107																			
192	382	960.353																			
193	384	988.8905																			

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193	384	988.8905																			
194	386	1048.893																			
195	388	970.4158																			
196	390	975.7293																			
197	392	1049.785																			
198	394	982.8354																			
199	396	964.5015																			
200	398	1046.71																			
201	400	996.6222																			
202	402	956.1015																			
203	404	1039.914																			
204	406	1010.678																			
205	408	951.1984																			
206	410	1029.939																			
207	412	1023.883																			
208	414	950.1829																			
209	416	1017.579																			
210	418	1035.186																			
211	420	953.1357																			
212	422	1003.819																			
213	424	1043.686																			
214	426	959.8217																			
215	428	989.754																			
216	430	1048.706																			
217	432	969.7083																			

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
217	432	969.7083																			
218	434	976.5057																			
219	436	1049.846																			
220	438	982.0079																			
221	440	965.1288																			
222	442	1047.015																			
223	444	995.7408																			
224	446	956.5298																			
225	448	1040.439																			
226	450	1009.813																			
227	452	951.3936																			
228	454	1030.642																			
229	456	1023.103																			
230	458	950.1293																			
231	460	1018.404																			
232	462	1034.553																			
233	464	952.8377																			
234	466	1004.699																			
235	468	1043.251																			
236	470	959.303																			
237	472	990.6208																			
238	474	1048.503																			
239	476	969.0103																			
240	478	977.2894																			
241	480	1049.897																			

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241	480	1049.892																			
242	482	981.1861																			
243	484	965.767																			
244	486	1047.306																			
245	488	994.8607																			
246	490	956.9717																			
247	492	1040.952																			
248	494	1008.945																			
249	496	951.6039																			
250	498	1031.335																			
251	500	1022.316																			
252	1	276.1301																			
253	3	345.0154																			
254	5	407.3454																			
255	7	463.744																			
256	9	514.7755																			
257	11	560.9507																			
258	13	602.7318																			
259	15	640.5368																			
260	17	674.7443																			
261	19	705.6964																			
262	21	733.7031																			
263	23	759.0446																			
264	25	781.9746																			
265	27	807.7774																			

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265	27	802.7224																			
266	29	821.4959																			
267	31	838.4828																			
268	33	853.8532																			
269	35	867.7609																			
270	37	880.3451																			
271	39	891.7318																			
272	41	902.0349																			
273	43	911.3575																			
274	45	919.7929																			
275	47	927.4256																			
276	49	934.332																			
277	51	940.5811																			
278	53	946.2356																			
279	55	951.3519																			
280	57	955.9814																			
281	59	960.1703																			
282	61	963.9606																			
283	63	967.3902																			
284	65	970.4935																			
285	67	973.3014																			
286	69	975.8421																			
287	71	978.141																			
288	73	980.2212																			
289	75	982.1034																			

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289	75	982.1034																			
290	77	983.8065																			
291	79	985.3475																			
292	81	986.7419																			
293	83	988.0035																			
294	85	989.1452																			
295	87	990.1781																			
296	89	991.1128																			
297	91	991.9585																			
298	93	992.7238																			
299	95	993.4162																			
300	97	994.0427																			
301	99	994.6096																			
302	101	995.1226																			
303	103	995.5867																			
304	105	996.0067																			
305	107	996.3867																			
306	109	996.7306																			
307	111	997.0417																			
308	113	997.3232																			
309	115	997.578																			
310	117	997.8084																			
311	119	998.017																			
312	121	998.2057																			
313	123	998.3765																			

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313	123	998.3765																			
314	125	998.531																			
315	127	998.6708																			
316	129	998.7972																			
317	131	998.9117																			
318	133	999.0153																			
319	135	999.109																			
320	137	999.1938																			
321	139	999.2705																			
322	141	999.3399																			
323	143	999.4027																			
324	145	999.4596																			
325	147	999.511																			
326	149	999.5575																			
327	151	999.5996																			
328	153	999.6377																			
329	155	999.6722																			
330	157	999.7034																			
331	159	999.7316																			
332	161	999.7572																			
333	163	999.7803																			
334	165	999.8012																			
335	167	999.8201																			
336	169	999.8372																			
337	171	999.8527																			

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337	171	999.8527																			
338	173	999.8667																			
339	175	999.8794																			
340	177	999.8909																			
341	179	999.9013																			
342	181	999.9107																			
343	183	999.9192																			
344	185	999.9269																			
345	187	999.9338																			
346	189	999.9401																			
347	191	999.9458																			
348	193	999.951																			
349	195	999.9556																			
350	197	999.9599																			
351	199	999.9637																			
352	201	999.9671																			
353	203	999.9703																			
354	205	999.9731																			
355	207	999.9757																			
356	209	999.978																			
357	211	999.9801																			
358	213	999.982																			
359	215	999.9837																			
360	217	999.9852																			
361	219	999.9866																			

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
361	219	999.9866																			
362	221	999.9879																			
363	223	999.9891																			
364	225	999.9901																			
365	227	999.991																			
366	229	999.9919																			
367	231	999.9927																			
368	233	999.9934																			
369	235	999.994																			
370	237	999.9946																			
371	239	999.9951																			
372	241	999.9956																			
373	243	999.996																			
374	245	999.9964																			
375	247	999.9967																			
376	249	999.997																			
377	251	999.9973																			
378	253	999.9976																			
379	255	999.9978																			
380	257	999.998																			
381	259	999.9982																			
382	261	999.9984																			
383	263	999.9985																			
384	265	999.9987																			
385	267	999.9988																			

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
409	315	999.9999																			
410	317	999.9999																			
411	319	999.9999																			
412	321	999.9999																			
413	323	999.9999																			
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Clipboard Font Alignment Number Styles Cells Editing Ideas

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