	A	B	C	D	E
1	Grady Sullivan				
2	10/5/201				
3	ECE 202 - E2 (part b)				
4	Three Dampings for Parallel RLC				
5					
6	v1(t) = A1e^(s1t)+A2e^(s2t)				
7	v2(t) = Ae^(-a2t)+Bte^(-a2t)				
8	v3(t) = ae^(-a3t)cos(wt)+be^(-a3t)sin(wt)				
9					
10	**t min (ms)**		**s1 (Hz)**	***α* 2 (Hz)**	***α* 3 (Hz)**
11	0		-800	500	120
12					
13	**t max (ms)**		**s2 (Hz)**	**A (V)**	**w (rad/s)**
14	40		-200	12	450
15					
16	**N (intervals)**		**A1 (V)**	**B (V)**	**a (V)**
17	400		16	-6000	12
18					
19	**dt (ms)**		**A2 (V)**		**b (V)**
20	0.1		-4		-5
21					
22	**t (ms)**	**t (s)**	**v1(t) (V)**	**v2(t) (V)**	**v3(t) (V)**
23	0	0	12	12	12
24	0.1	0.0001	10.84906685	10.84401544	11.6226164
25	0.2	0.0002	9.791142867	9.772244115	11.22927733
26	0.3	0.0003	8.818987643	8.77922136	10.82120403
27	0.4	0.0004	7.925919208	7.85981523	10.3996203
28	0.5	0.0005	7.105771064	7.009207048	9.965749916
29	0.6	0.0006	6.352852522	6.222873054	9.520813933
30	0.7	0.0007	5.66191208	5.4965671	9.066028171
31	0.8	0.0008	5.028103629	4.826304331	8.602600721
32	0.9	0.0009	4.44695525	4.208345801	8.131729544
33	1	0.001	3.914340414	3.639183958	7.65460014
34	1.1	0.0011	3.426451395	3.115528976	7.172383308
35	1.2	0.0012	2.979774731	2.634295853	6.686232983
36	1.3	0.0013	2.571068568	2.192592262	6.197284164
37	1.4	0.0014	2.197341748	1.787707094	5.706650931
38	1.5	0.0015	1.855834508	1.417099658	5.215424552
39	1.6	0.0016	1.544000659	1.078389514	4.724671691
40	1.7	0.0017	1.25949114	0.769346878	4.235432698
41	1.8	0.0018	1.000138835	0.487883592	3.748720011
42	1.9	0.0019	0.763944554	0.232044614	3.265516644
43	2	0.002	0.549064104	0	2.78677478
44	2.1	0.0021	0.353796337	-0.209962649	2.313414462
45	2.2	0.0022	0.176572137	-0.3994453	1.846322383
46	2.3	0.0023	0.015944236	-0.569946185	1.386350776
47	2.4	0.0024	-0.129422173	-0.722866109	0.93431641
48	2.5	0.0025	-0.260758107	-0.859514391	0.490999671
49	2.6	0.0026	-0.379198797	-0.981114455	0.057143765
50	2.7	0.0027	-0.485791073	-1.088809095	-0.366546003
51	2.8	0.0028	-0.581500185	-1.183665427	-0.779402838
52	2.9	0.0029	-0.667216097	-1.266679556	-1.180798968
53	3	0.003	-0.743759292	-1.338780961	-1.570146068
54	3.1	0.0031	-0.811886141	-1.400836627	-1.946895581