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ENR 305: Sensors, Instrumentation, and Experimentation

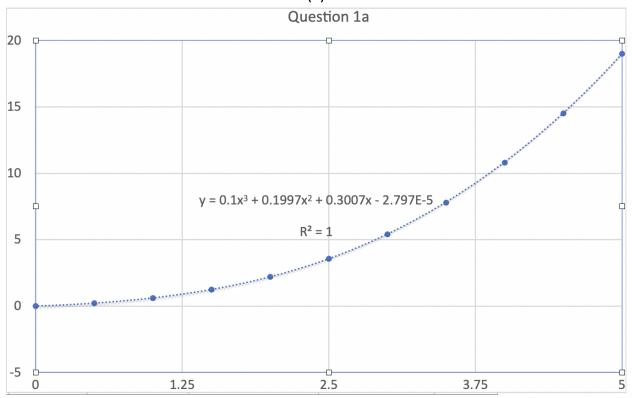
Section 3 Monsoon Semester 2021

Faculty: Professor Ashok Ranade

Teaching Assistant: Professor Sanket Patel

Question 1:

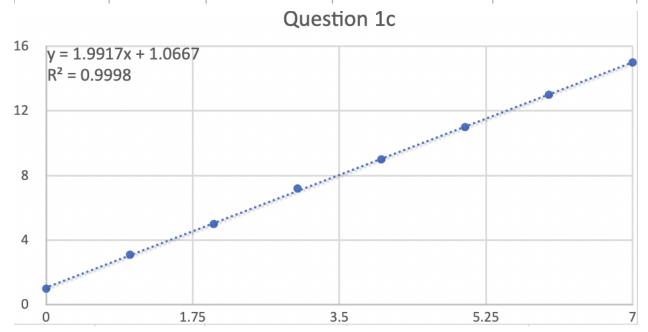
(a)



(b)

x	у	y-calculated	Error	Mean Square Error
0	0	-0.00003	0.000000009	0.000005409
0.5	0.213	0.21277	0.000000529	
1	0.6	0.60047	0.0000002209	
1.5	1.238	1.23807	0.000000049	
2	2.2	2.20057	0.0000003249	
2.5	3.563	3.56297	0.000000009	
3	5.4	5.40027	0.000000729	
3.5	7.788	7.78747	0.000002809	
4	10.8	10.79957	0.000001849	
4.5	14.51	14.51157	0.0000024649	
5	19	18.99847	0.0000023409	
			0.0000059499	

X	У	y-calculated	Error	Mean Square Error
0	1	1.0667	0.00444889	0.004479195
1	3.1	3.0584	0.00173056	
2	5	5.0501	0.00251001	
3	7.2	7.0418	0.02502724	
4	9	9.0335	0.00112225	
5	11	11.0252	0.00063504	
6	13	13.0169	0.00028561	
7	15	15.0086	0.00007396	
			0.03583356	
	+			



Question 2:

