Prelab	Lab 1				Postlab

Prelab

Prolem 3

| Sequence generator | limiter | AC network | Integrate dump / hold | PCM Decoder | Tuneable LPF |

| Digital out | Coninuoius Function integrator |

| Function gen | Discrete time function integrator |

| Analog out |

Lab 1

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Materials

NI ELVIS II

EMONA SIGEx Signal & Systems add-on board

Assorted patch leads

Two BNC – 2mm leads

Results

Table 1.4

Frequency (Hz)	BLPF (Vpp)	TLPF (Vpp)	RCLPF (Vpp)	RCLPF (Vrms)
100	3.74	2.4	3.632	1.816
1000	3.56	2.4	1.004	0.502
2000	3.36	2.37	0.68	0.34
3000	0.82	2.33	0.5	0.25
4000	0.392	2.3	0.392	0.196
5000	0.284	2.3	0.392	0.196
6000	0.248	2.22	0.356	0.178
7000	0.2	2.15	0.32	0.16
8000	0.15	2.08	0.32	0.16
9000	0.1125	2.04	0.32	0.16
10000	0.084375	2.012	0.32	0.16

Table 1.5

Input (Vpp)	Output (Vpp)	Output (Vrms)
0	0	0
0.4	2.52	1.26
0.8	3.52	1.76
1.2	3.52	1.76
1.6	3.52	1.76
2	3.52	1.76
2.4	3.52	1.76
2.8	3.52	1.76
3.2	3.52	1.76
3.6	3.52	1.76
4	3.52	1.76

Conclusion