Lab#2
Andrew Michaelson

Part 1

Trial	LNBata2Sum	Bata2mean	MLE	MOM
1	-54.47	0.61	1.82	1.67
2	-57.26	0.63	1.71	1.8
3	-50.14	0.67	1.86	1.94
4	-56	0.63	1.71	1.81
5	-48.05	0.67	1.97	2.04
6	-40.25	0.69	2.24	2.18
7	-52.11	0.63	1.89	1.65
8	-42.17	0.67	2.16	2.06
9	-54.11	0.62	1.82	1.79
10	-51.1	0.63	1.91	1.89

MSE   0.51   0.42

The MOM method is better and has the lower MSE value.

Part 2

Trial	Uniform Mean	Z-score	Bata2mean	Z-score
1	0.42	-1.75	0.61	4.26
2	0.44	-0.55	0.62	4.95
3	0.47	-0.14	0.64	5.61
4	0.47	-0.31	0.63	5.11
5	0.52	1.3	0.68	6.6
6	0.52	1.41	0.69	7.05
7	0.46	-0.91	0.63	5.1
8	0.51	0.72	0.67	6.67
9	0.42	-1.14	0.63	4.95
10	0.48	-0.13	0.64	5.39

All but 2 of the uniform mean Z-scores pass the test, while all the
other values fail the test.

Trial	UniformLNSum	Test	LNBata2Sum	Test
1	-109.64	-0.95	-54.67	4.51
2	-115.08	-1.51	-57.16	4.23
3	-101.19	-0.11	-50.4	4.8
4	-112.3	-1.23	-56.1	4.28
5	-96.1	0.36	-48.1	5.15
6	-81.5	1.81	-40.6	5.81
7	-104.7	-0.47	-52.1	4.71
8	-84.2	1.51	-42.1	5.6
9	-108.24	-0.83	-54.1	4.55
10	-103.7	-0.37	-51.8	4.79

Also here all, but two of the uniform test values pass the test while all the other values failed the test.