Aufgabe 1

a)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| N | mean | variance | 95% interv lower | 95% interv upper |
| 100 | 0.687614 | 0.772018 | 0.515403 | 0.859825 |
| 1000 | 0.498548 | 0.488197 | 0.455242 | 0.541853 |
| 10000 | 0.4907 | 0.453092 | 0.477507 | 0.503893 |
| 100000 | 0.490454 | 0.440924 | 0.486338 | 0.494569 |
| 1000000 | 0.487309 | 0.435874 | 0.486015 | 0.488603 |

b)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| N | mean | variance | 95% interv lower | 95% interv upper |
| 10 | 1.297044 | 0.046224 | 1.16379 | 1.430298 |
| 100 | 1.197465 | 0.004131 | 1.184867 | 1.210062 |
| 1000 | 1.149215 | 0.000293 | 1.148155 | 1.150276 |
| 10000 | 1.135995 | 2.88E-05 | 1.13589 | 1.136101 |
| 100000 | 1.13196 | 2.81E-06 | 1.131949 | 1.13197 |