**Simulation: Intersecting all Possible bounds for \bar{N}\geq 3**

Correlation = 0.01

Chart, line chart

Description automatically generated

Correlation = 0.3

Chart, line chart

Description automatically generated

Correlation = 0.5

Chart, line chart

Description automatically generated

Correlation = 0.7

Chart, line chart

Description automatically generated

Correlation = 0.999Chart, line chart

Description automatically generated