**Simulation: Individual \bar{N} Plots**

1. **Correlation = 0.01**

Chart, line chart

Description automatically generatedChart, line chart

Description automatically generatedChart, line chart

Description automatically generatedChart, line chart

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Description automatically generatedChart, line chart

Description automatically generated

1. **Correlation = 0.3**

Chart, line chart

Description automatically generatedChart, line chart

Description automatically generatedChart, line chart

Description automatically generatedChart, line chart

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Description automatically generatedChart, line chart

Description automatically generatedChart, line chart

Description automatically generatedChart, line chart

Description automatically generated

1. **Correlation = 0.5**

Chart, line chart

Description automatically generatedChart, line chart

Description automatically generatedChart, line chart

Description automatically generatedChart, line chart

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Description automatically generatedChart, line chart

Description automatically generatedChart, line chart

Description automatically generatedChart, line chart

Description automatically generated

1. **Correlation = 0.7**

Chart, line chart

Description automatically generatedChart, line chart

Description automatically generatedChart, line chart

Description automatically generatedChart, line chart

Description automatically generatedChart, line chart

Description automatically generatedChart, line chart

Description automatically generatedChart, line chart

Description automatically generatedChart, line chart

Description automatically generated

1. **Correlation = 0.999**

Chart, line chart

Description automatically generatedChart, line chart

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Description automatically generatedChart, line chart

Description automatically generatedChart, line chart

Description automatically generatedChart, line chart

Description automatically generated