

Figure 1 is a line graph showing the relationship between the number of people (Y-axis) and the number of people (X-axis) for different values of the parameter α . The Y-axis ranges from 0 to 1000, and the X-axis ranges from 0 to 100. Four curves are plotted, labeled $\alpha=0.1$, $\alpha=0.2$, $\alpha=0.3$, and $\alpha=0.4$. All curves show a decreasing trend, with higher α values resulting in lower values for the Y-axis variable.

