4. For graph a,

The graph shows exponential growth, which can be displayed by an exponential function of the form:

y=ae^bx

Here, the specific equation used is:

y = 2e0.6931x

This equation shows the rapid increase observed in the plot. The high R^2 value of 1 indicates that the model is fit for the data, meaning it accurately represents how y grows quickly as x increases. As x gets larger, y grows at an accelerating rate, characteristic of exponential functions.