| 2.1. Create a time-series plot of the Gap Sa | les. Describe the pattern(s) of | the time series you see in the graph. |
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The pattern of the actual data depicts a strong exponential trend with very little variability until t = 60 where random variation begins to be exhibited thereafter. Overall, the graph depicts an S-curve. This could indicate that Gap is suffering from a stagnation in sales growth and increased volatility towards the end of the data.

However, the pattern may also be indicative of a seasonal trend. This stems from the cyclical appearance of the data. In conclusion, another test must be conducted to accurately assess if the data is seasonal or not.