

Financial summary

1. Compute the rate of change of net sales for each year. At the start of 1994, the rate of increase during the previous year was 21.4%, i.e. $\frac{67344 - 55484}{55484}$.
2. Model the net sales data from 1993-2003.
3.
 - a) What is your model and why did you choose it?
 - b) Find the derivative of your model.
 - c) Evaluate the derivative for the years 1993-2003.
4. Use your model of net sales data to predict net sales and rates of change for the next three years
5. Assuming that net income= profit, net sales = revenue, and profit= revenue – total cost, compute the total cost for the years 1993 to 2003.
6. Model the total cost data and evaluate the derivative of total cost for the years 1993-2003.
7. Based on your profit model results, predict the rate of increase in percent of profits for the next three years.

Note: The financial data was obtained from www.walmartstores.com. To access the specific site, then pull down the following menus: news-> general information-> annual reports-> 2003-> 2003 annual report.