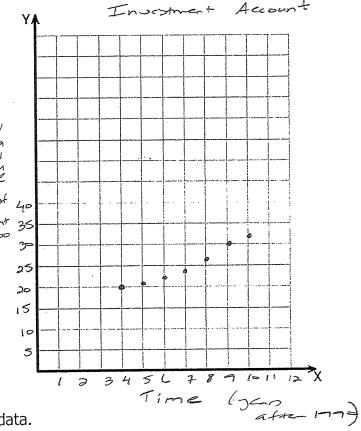
FST: 2-5 Warm-up

The following data represents the amount of money an investor has in an investment account each year for 7 years. Round your answers to the nearest thousandth.

*		
Year		Value of Account
1994	4	\$20,000
1995	5	\$21,516
1996	6.	\$23,355
1997	7	* \$24 , 885
1998	8	\$27,434
1999	1	\$30,053
2000	lo	\$32,622
		A

1) Use a graphing calculator to graph the data, draw a scatter diagram with time as the independent variable and the value of the account as the dependent variable. Use x as "years after 1990."



2) Find the exponential model of this data.

3) Find the sum of the squared residuals of the exponential model. - Put residuals in L3, the

- 1-V= Stats L3
- 4) Using the same data, find the linear model of this data.

5) Find the sum of the **squared** residuals of the linear model.

6) Determine which model (exponential or linear) best fits the data provided. Explain your answer.