

4. The following is a table of the average NBA salaries from 1980 ($t = 0$) to 1998.

Time since 1980 in years	0	5	10	15	16	17	18
Salary in thousands of dollars	170	325	750	1900	2000	2200	2600

- Use your calculator to graph the scatter plot of the points. Give the window from your calculator.
- Does the function appear to be linear or exponential? How do you know?
- Use your calculator to find a model that could be used to predict the salary of an NBA player for any year.
- Use your model to predict the salary for an NBA player in 2015.
- In what year does your model predict that the salary of an NBA player will first reach \$4 million?

4. The following is a table of the number of votes cast in a sample of the presidential elections from 1840 ($t = 0$) to 2004.

Time since 1840 in years	0	20	40	60	80	100	120	140	160	164
Total Votes Cast	2.4	4.6	9.2	14	26.7	49.7	68.8	86.5	105.4	122.2

- Use your calculator to graph the scatter plot of the points. Give the window from your calculator.
- Does the function appear to be linear or exponential? How do you know?
- Use your calculator to find a model that could be used to predict number of votes cast for any year.
- Use your model to predict the number of votes cast in 2016.
- In what year does your model predict that the number of votes will first reach \$200 million?