



2. Display 5.20 shows some data on how homes in the United States have been heated over the years.

Percent of Homes in U.S. Heating With		
Year	Electricity	Oil
1973	10.4	24.9
1975	12.6	22.5
1977	14.8	20.7
1980	17.7	18.1
1983	18.5	14.9
1985	20.8	14.1
1987	22.7	14.0
1989	24.6	13.3
1991	25.5	12.3
1993	26.5	11.8
1995	27.4	11.2
1997	29.4	10.2
1999	30.3	9.8
2001	30.7	9.3
2003	30.6	9.0

Display 5.20

- On one set of axes make graphs for each set of data. Do these graphs appear to be linear?
- From your graphs, estimate when the number of U.S. homes heating with oil was equal to the number of U.S. homes heating with electricity.
- Enter the data into your calculator or spreadsheet and find the equations of the lines that best represent the data.
- Graph these lines and use your graph to estimate when the number of U.S. homes heating with oil was equal to the number of U.S. homes heating with electricity.
- Which estimate is more accurate—the one found in part (b) or in part (d)? Explain your answer.