

Exercise 35

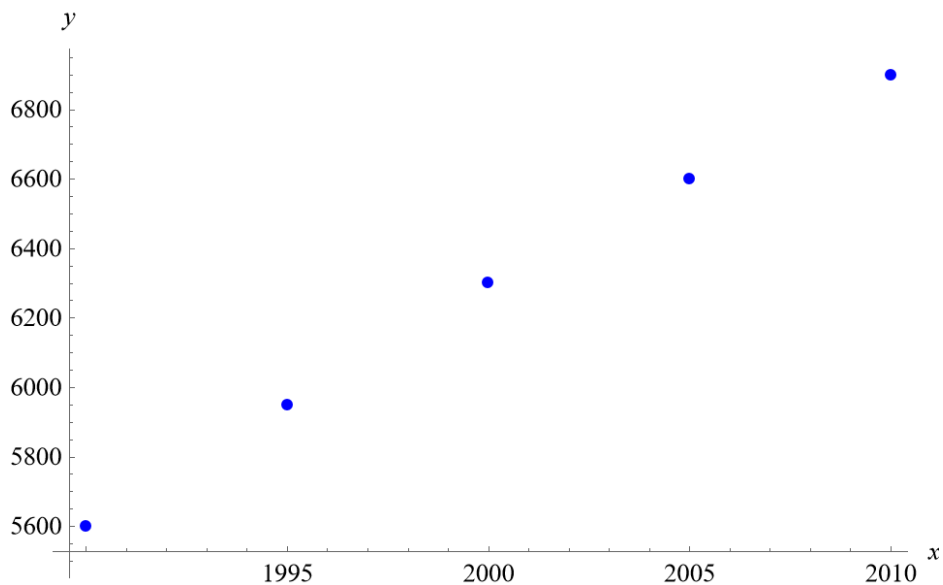
Draw a scatter plot for the data in Table 3. If we wanted to know when the population would reach 15,000, would the answer involve interpolation or extrapolation?

Year	Population
1990	5,600
1995	5,950
2000	6,300
2005	6,600
2010	6,900

Table 3

Solution

Plot the following points: (1990, 5600), (1995, 5950), (2000, 6300), (2005, 6600), and (2010, 6900).



Since 15,000 lies outside the range of the scatterplot ($5600 \leq y \leq 6900$), the answer would involve extrapolation.