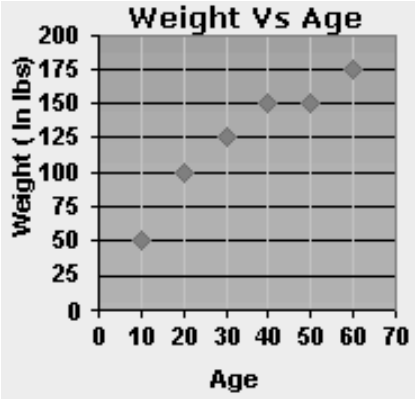
1. The scatter plot displays the weight of Josh as he grew old. What model represents this data?



a. ○ Quadratic (go to #5)

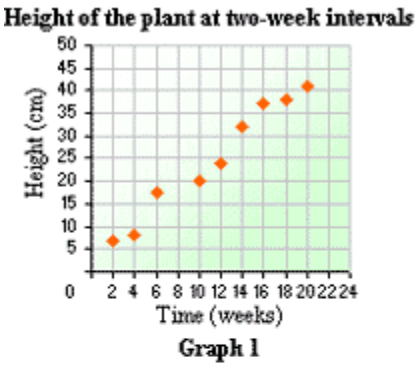
b. ○ Linear (go to #3)

c. ○ Square Root (go to #4)

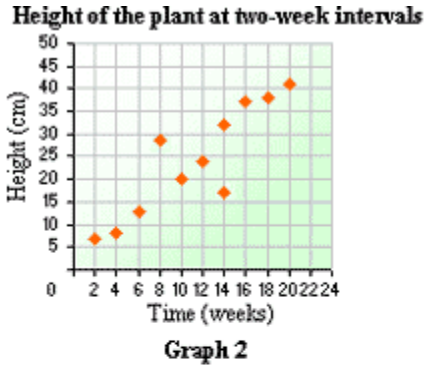
d. ○ Constant (go to #2)

2. Ben measured the height of a particular plant at two-week intervals in different situations. The table shows the data. Make a scatter plot for the data.

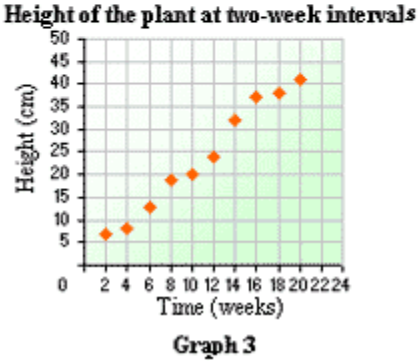
Time (in weeks)	Height (cm)
2	7
4	8
6	13
8	19
10	20
12	24
14	32
16	37
18	38
20	41



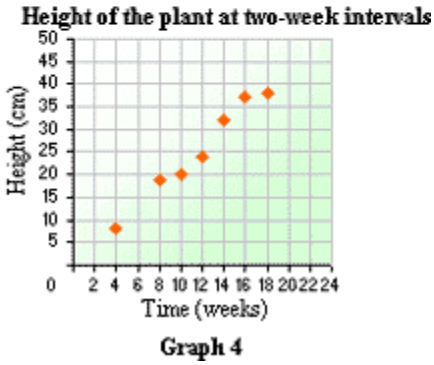
Graph 1



Graph 2



Graph 3



Graph 4

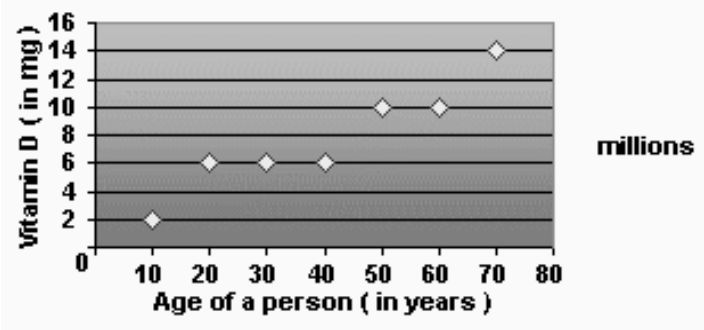
a. ○ Graph 2 (go to #9)

b. ○ Graph 4 (go to # 1)

c. ○ Graph 3 (go to #8)

d. ○ Graph 1 (go to #5)

3. The scatter plot represents the requirement of Vitamin D by a person at various stages in his or her life. What model does the graph seem to follow?



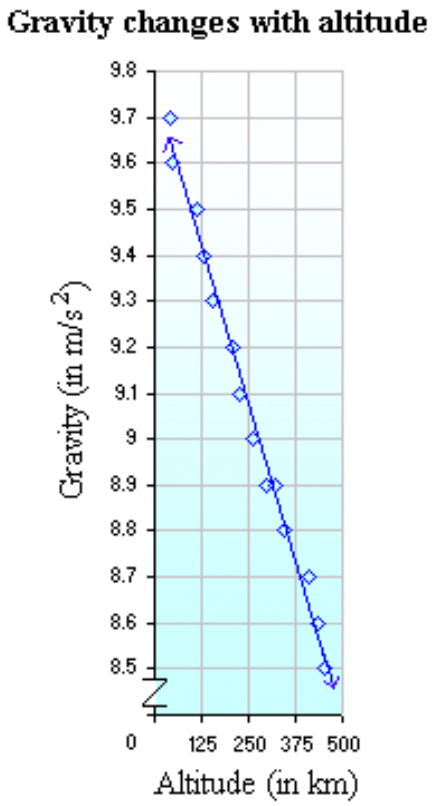
a. Cubic (go to #7)

b. Quadratic (go to #8)

c. Linear (go to #10)

d. Constant (go to #6)

4. Use the scatter plot and the trend line to find the approximate value of the altitude that corresponds to the gravity of 9.25 m/s^2.



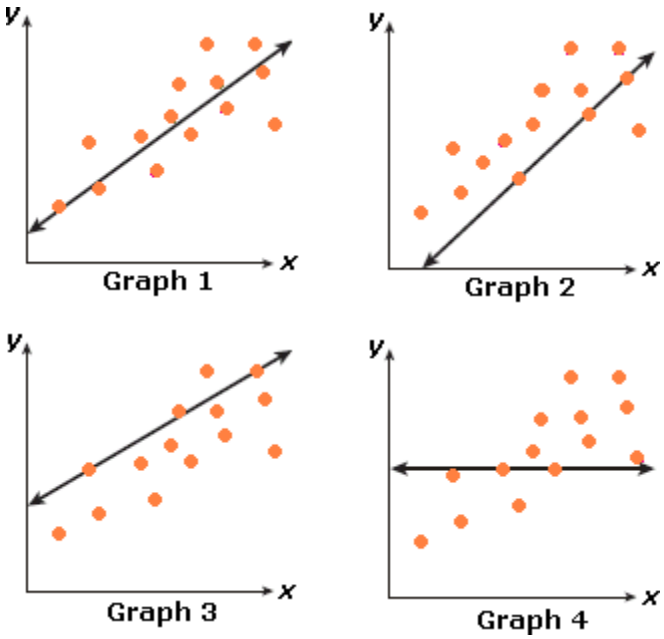
a. ○ 250 km (go to #10)

b. ○ 240 km (go to #5)

c. ○ 130 km (go to #3)

d. ○ 186 km (go to #6)

5. Choose the graph where the line best fits the data points given.



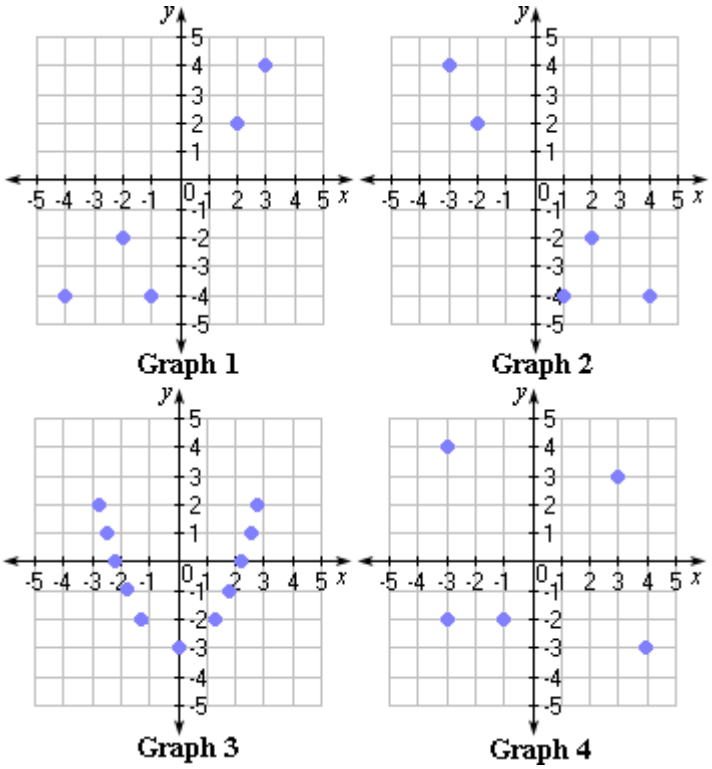
a. Graph 1 (go to # 2)

b. Graph 4 (go to #9)

c. Graph 2 (go to #6)

d. Graph 3 (go to #10)

6. Identify the graph that could be modeled with a linear model.



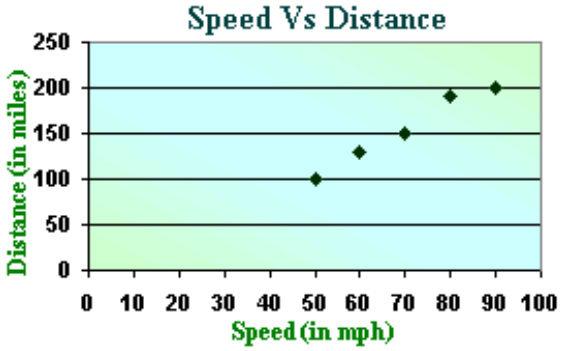
a. Both Graph 1 and Graph 2 (go to #9)

b. Graph 3 (go to #7)

c. Graph 4 (go to #3)

d. All (go to #1)

7. The scatter plot represents the distance traveled by Andrew at different speeds in a given time. Which of the tables represents the values plotted in the scatter plot?



Speed	50	60	70	80	90
Distance	100	130	150	190	200

Figure 1

Speed	50	60	70	80	90
Distance	130	100	130	190	200

Figure 2

Speed	50	60	70	80	90
Distance	100	150	130	200	190

Figure 3

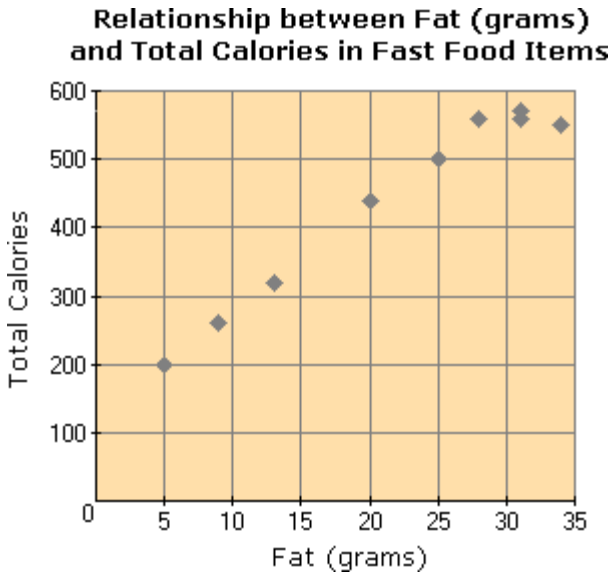
a. ○ Figure 1 (go to #1)

b. ○ Figure 2 (go to #10)

c. ○ Figure 3 (go to #8)

d. ○ None of the above (go to #3)

8. The scatter plot shows the relationship between the fat (grams) and the total calories in different types of fast food items. Predict the total number of calories in a food item containing 15 grams of fat.



a. about 200 (go to #3)

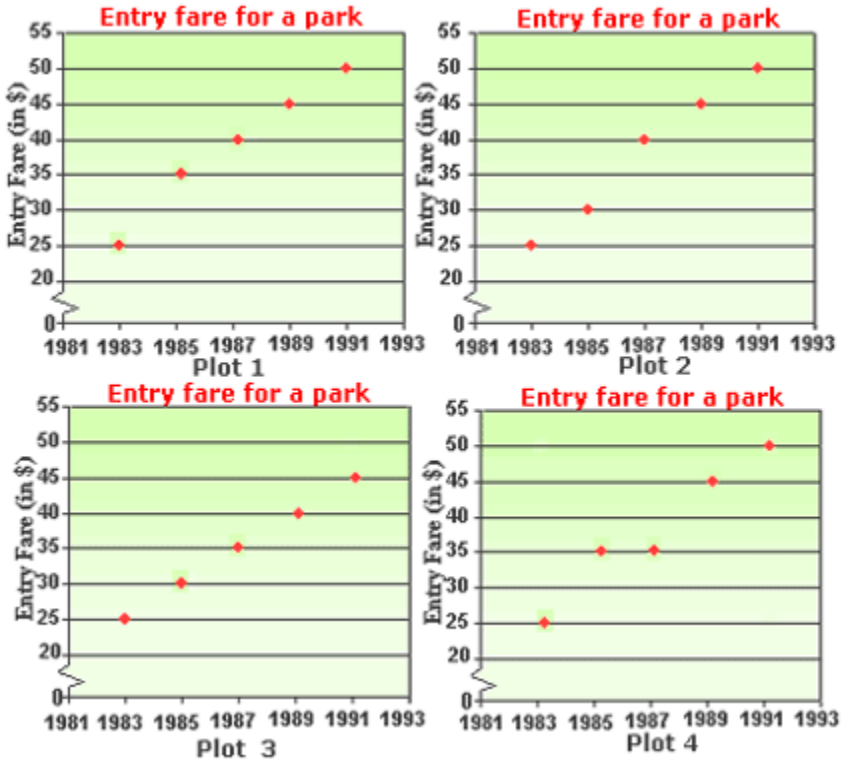
b. about 580 (go to #5)

c. about 350 (go to #10)

d. about 300 (go to #6)

9. The cost of entry to an amusement park during 5 years is given in the table below. Pick an appropriate scatter plot that shows the exact trend followed in the table.

Year	Entry fare ($)
1983	25
1985	30
1987	40
1989	45
1991	50



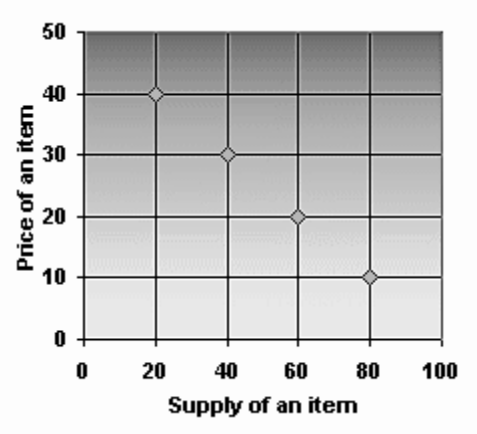
a. Plot 1 (go to #6)

b. Plot 2 (go to #5)

c. Plot 3 (go to #4)

d. Plot 4 (go to #8)

10. The graph depicts the relation between the price and the supply of an item. What model does the graph follow?



a. ○ Positive Quadratic Model (go to #5)

b. ○ Negative Quadratic Model (go to #6)

c. ○ Positive Linear Model (go to #4)

d. ○ Negative Linear Model (go to #3)