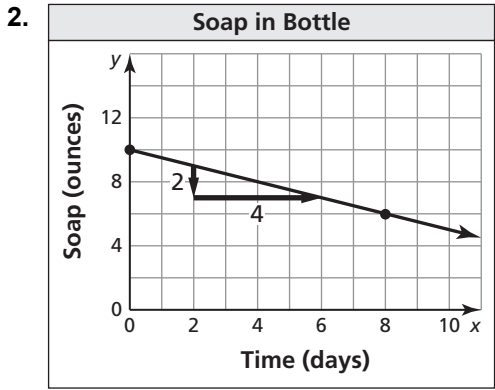
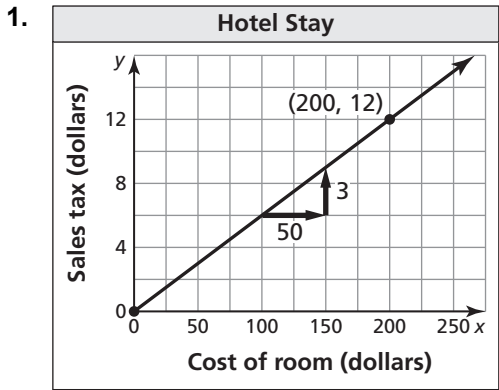


2.3

Practice A

In Exercises 1 and 2, use the graph to write an equation of the line and interpret the slope.



3. Two car washes charge a basic fee plus a fee based on the number of extras that are chosen. The table below shows the total costs for different car washes at Bubbles Car Wash. The total cost y (in dollars) for a car wash with x extras at Soapy Car Wash is represented by the equation $y = x + 9$. Which car wash charges more for the basic fee? How many extras must be chosen for the total costs to be the same?

Number of extras, x	2	4	6	8
Total cost, y	9	12	15	18

In Exercises 4 and 5, determine whether the data show a linear relationship. If so, write an equation of a line of fit. Estimate y when $x = 15$ and explain its meaning in the context of the situation.

4.

Weeks, x	3	6	10	12	16
Height of basil plant (inches), y	1	2	5	9	15

5.

Minutes, x	6	10	14	20	24
Cars washed, y	3	5	7	10	12

6. A set of data points has a correlation coefficient $r = -0.86$. Your friend claims that because the correlation coefficient is close to -1 , it is reasonable to use the line of best fit to make predictions. Is your friend correct? Explain your reasoning.