

CHAPTER
5**Chapter Test A***For use after Chapter 5*

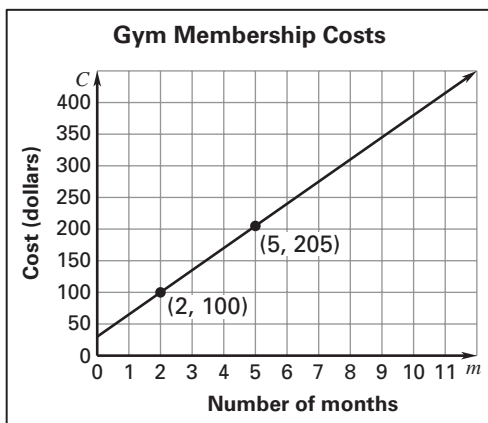
Write an equation in slope-intercept form of the line that has the given slope and y -intercept.

1. slope: -2 ; y -intercept: 0 2. slope: $\frac{3}{4}$; y -intercept: -1

Write an equation in slope-intercept form of the line that passes through the given point and has the given slope m .

3. $(2, -3)$; $m = 3$ 4. $(-1, 0)$; $m = 2$ 5. $(3, -1)$; $m = \frac{2}{3}$

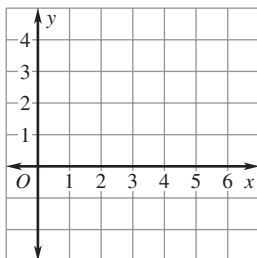
In Exercises 6–9, use the graph that shows gym membership costs.



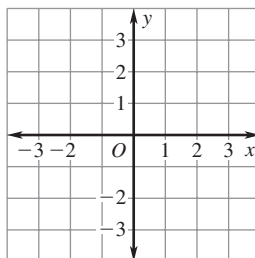
6. How much was the initial membership fee?
7. What is the cost per month?
8. Write an equation in slope-intercept form that relates the total cost (in dollars) to the number of months of the gym membership.
9. Find the cost of a gym membership for one year.

Graph the equation.

10. $y - 1 = 2(x - 4)$



11. $y + 2 = -(x - 1)$



Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. See left.
11. See left.

CHAPTER 5

Chapter Test A *continued*
For use after Chapter 5

Write an equation for a linear function f that has the given values.

12. $f(-3) = 2$ and $f(1) = 0$ 13. $f(3) = -3$ and $f(4) = 1$

In Exercises 14 and 15, use the following information.

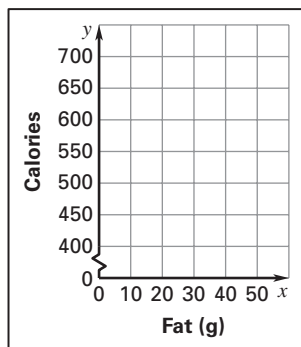
For a school band fundraiser, students are selling seat cushions for \$4 each and license plate holders for \$6 each. One student raises \$304.

14. Write an equation in standard form of the line that models the possible combinations of seat cushions and license plate holders the student sold.
15. List two of these possible combinations.
16. Write an equation of the line that passes through the point (4, 7) and is (a) parallel to and (b) perpendicular to the line $y = \frac{1}{2}x - 1$.

In Exercises 17–20, use the table that shows the number of calories in grams of fat.

Fat (g)	31	39	19	34	43	39	35
Calories	580	680	410	590	660	640	570

17. Make a scatter plot of the data.



18. Describe the correlation.
19. Draw a line of fit for the data.
20. Use the line of fit from Exercise 19 to predict the number of calories in a hamburger that contains 28 grams of fat.

Find the zero of the function.

21. $f(x) = x - 8$ 22. $f(x) = 3x + 9$ 23. $f(x) = \frac{1}{2}x - 1$

Answers

12. _____
13. _____
14. _____
15. _____
16. _____
17. See left.
18. _____
19. See left.
20. _____
21. _____
22. _____
23. _____