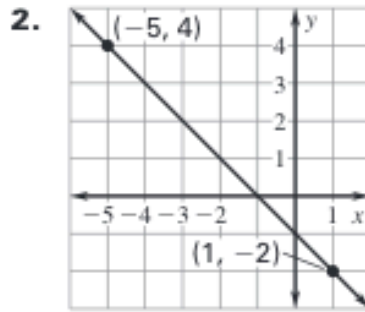
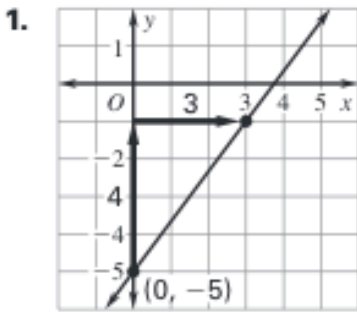


Algebra I

Review Chapter 4

Name _____

Write an equation in slope-intercept form of the line shown.



Answers

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

In Exercises 3 and 4, use the following information.

A delivery service charges a base price for an overnight delivery of a package plus an extra charge for each pound the package weighs. A customer is billed \$22.85 for shipping a 3-pound package and \$40 for shipping a 10-pound package.

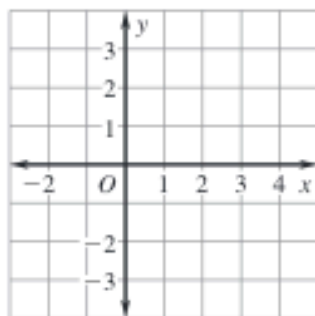
3. Write an equation that gives the total cost of shipping a package as a function of the weight of the package.
4. Find the cost of shipping a 15-pound package.

Find the missing coefficient in the equation of the line that passes through the given point.

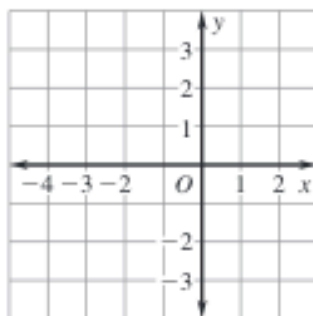
5. $Ax + y = 3$; $(2, -5)$
6. $3x + By = -1$; $(2, 7)$

Graph the equation.

7. $y - 2 = \frac{2}{3}(x - 4)$



8. $y + 4 = -3(x + 2)$

**In Exercises 9 and 10, use the table.**

x	2	4	6	9	11
y	-3	5	13	25	33

9. Explain why the data can be modeled by a linear equation.
10. Write an equation in point-slope form that relates y to x .

Write an equation in standard form of the line that passes through the given point and has the given slope m or that passes through the given points.

11. $(-4, 3)$, $m = \frac{1}{2}$
12. $(2, -3)$, $m = -4$
13. $(-2, -1)$, $(2, -6)$
14. $(-2, 5)$, $(3, 5)$

In Exercises 15 and 16, use the following information.

A piggy bank contains only nickels and quarters. The total value in the bank is \$3.80.

15. Write an equation in standard form that models the possible combinations of nickels and quarters in the piggy bank.
16. List two of these possible combinations.
17. Write an equation of the line that passes through the point $(-4, -1)$ and is (a) parallel to and (b) perpendicular to the line $2x + 7y = 14$.

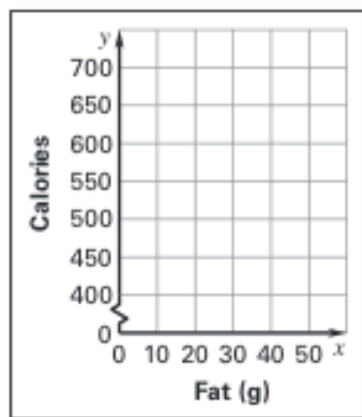
Answers

11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
- _____
- _____
- _____

In Exercises 18–22, use the table.

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

18. Make a scatter plot of the data.



19. Describe the correlation.

20. Use technology to find the equation of the best-fitting line for the data.

21. Graph the best-fitting line for the data on the scatter plot.

22. Predict the number of calories in a hamburger that contains 34 grams

17. _____

18. _____

19. _____

20. _____

21. _____

22. _____

