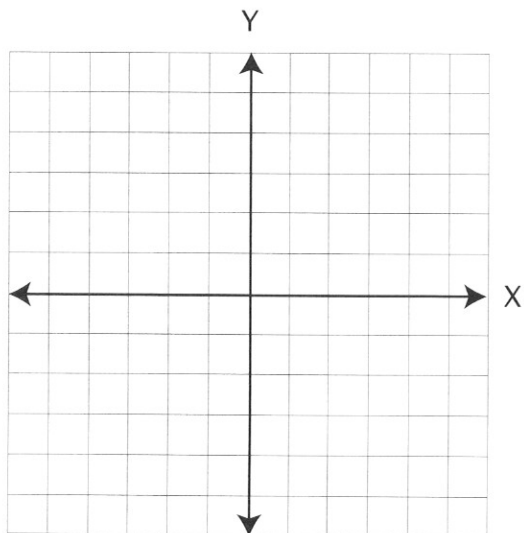


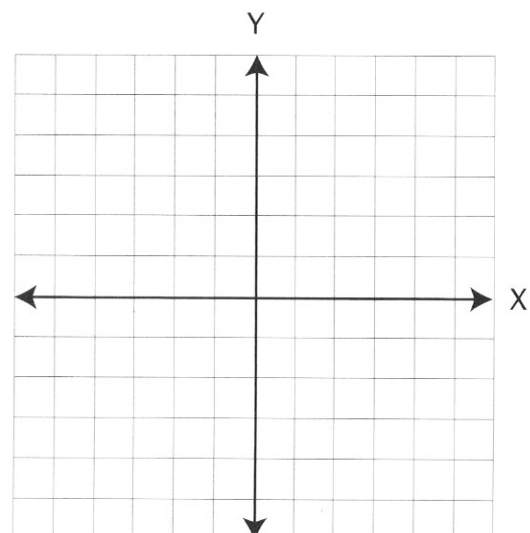
LESSON PRACTICE

Plot the points, draw a line to connect them, and find the slope–intercept formula for the line.



1. $(-4, -6), (4, 0)$

$Y =$ _____



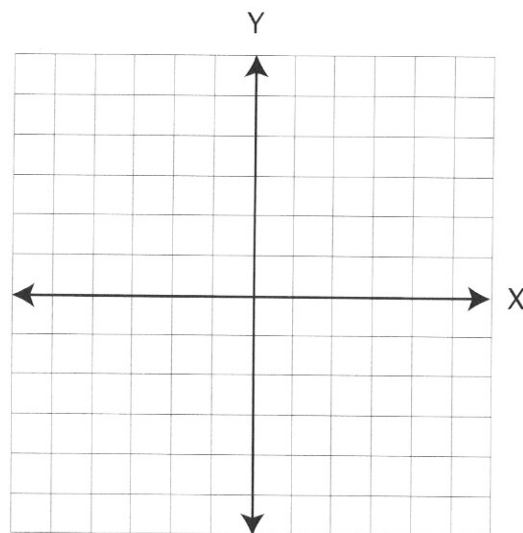
2. $(-2, 2), (1, 5)$

$Y =$ _____

Plot the points and draw the line. Find the slope–intercept form and the standard form of the equation of the line.

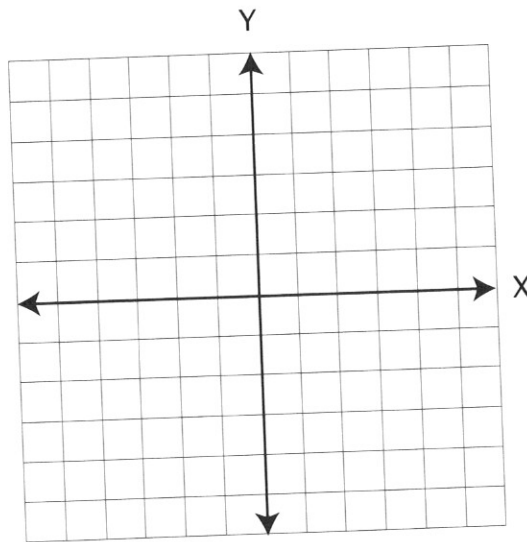
3. $(-3, -2), (4, -2)$

$Y =$ _____



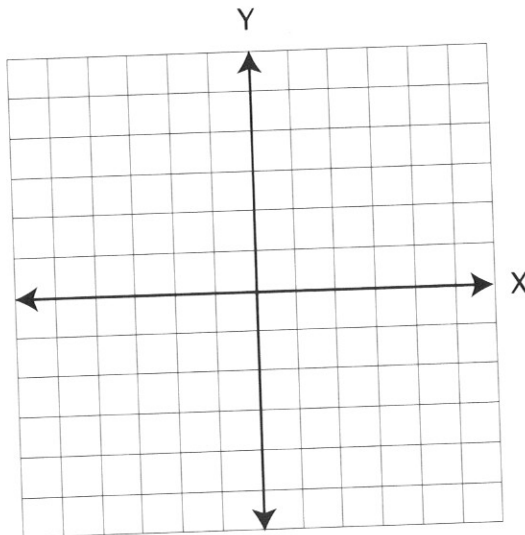
4. $(0, 2), (6, -6)$

$Y =$ _____



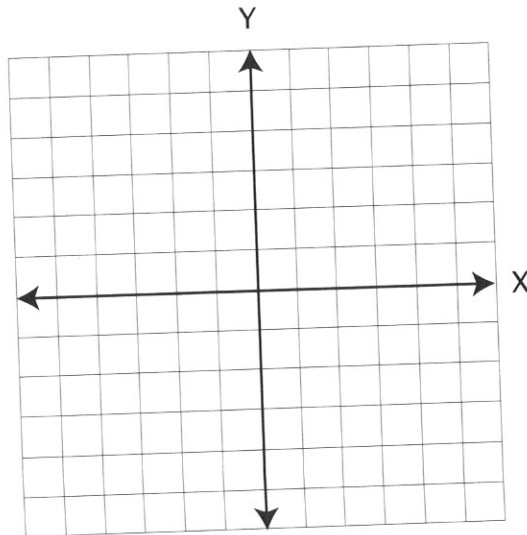
5. $(-3, 6), (0, 0)$

$Y =$ _____



6. $(3, 5), (3, -1)$

$Y =$ _____



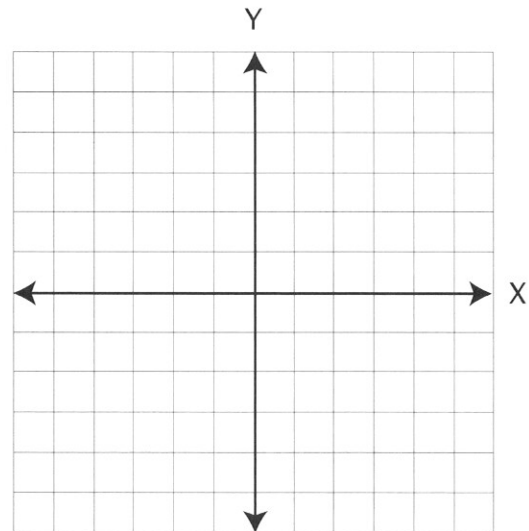
Follow the directions for each graph.

7. Plot the points $(2, 0)$ and $(4, -3)$.

8. Make a right triangle and determine the slope.

9. Estimate the intercept by extending the line until it intercepts the Y-axis.

10. Describe the new line using the slope-intercept formula.



11. Which of the following lines are parallel to the line you drew? Put each equation into the slope-intercept form before answering.

A. $2Y = 3X + 10$

B. $2Y - 3X = -4$

C. $2Y + 3X = 0$

12. Draw a line that is parallel to the line described in #10, and that passes through the point $(2, -5)$.

13. Describe the new line using the slope-intercept form of the equation of a line.

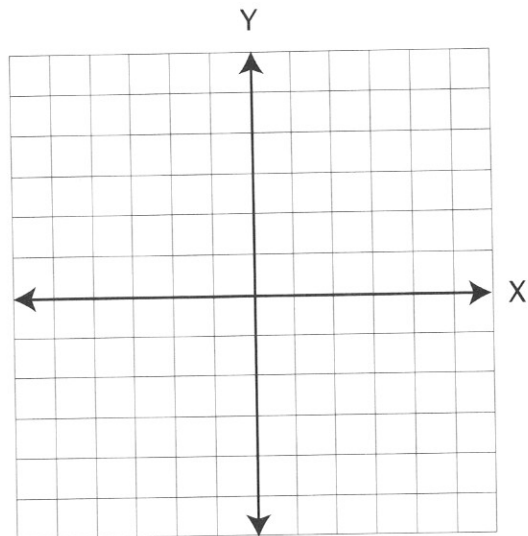
14. Describe the new line with the standard form of the equation of a line.

15. Plot the points (1, 3) and (-1, -5).

16. Make a right triangle and determine the slope.

17. Estimate the intercept by extending the line until it intercepts the Y-axis.

18. Describe the new line using the slope-intercept formula.



19. Which of the following lines is parallel to $Y = \frac{3}{2}X - 2$?

A. $2Y = -5X - 4$

B. $3Y = 6X$

C. $4Y = 6X + 4$

20. Draw a line that is parallel to the line described in #18 that passes through the point (0, 3).

21. Describe the new line using the slope-intercept form of the equation of a line.

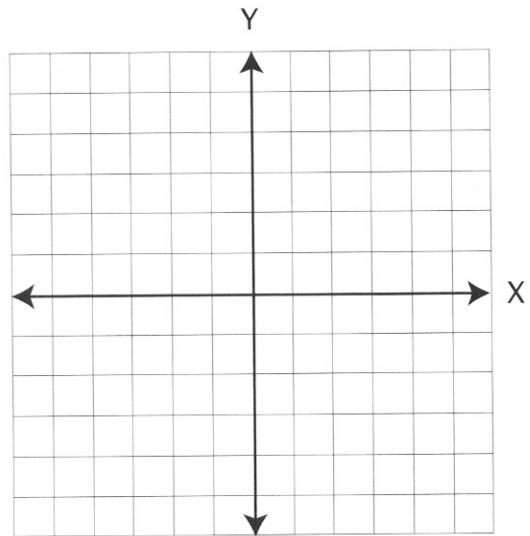
22. Describe the new line with the standard form of the equation of a line.

1. Plot the points (2, 6) and (-1, 3).

2. Make a right triangle and determine the slope.

3. Estimate the intercept by extending the line until it intercepts the Y-axis.

4. Describe the line using the slope-intercept form, and then give the standard form of the equation of a line.



5. Which of the following lines is parallel to $Y = -X + 2$?

A. $2Y = -2X - 2$

B. $3Y = 4X + 1$

C. $5Y = -5X$

6. Draw a line that is parallel to the line described in #4 while passing through the point (2, 2).

7. What will be the slope of a line parallel to $Y = 2X - 4$?

8. What will be the slope of a line parallel to $4Y = -12X - 4$?

9. Rewrite as the standard form of the equation of a line: $Y - 3 = 1/3 X - 1$.

10. Rewrite using the slope-intercept form: $2Y + 3X = 1$.

Simplify and solve for the unknown.

$$11. (3 - 11)^2 \times 2 \div 16 - 7 = 3Y - 4Y + 9$$

$$12. (3 - 5)^2 + |6 - 4| - X = 3X$$

$$13. 3(A - 4) - 5(2A - 6) = 21$$

$$14. 1\frac{1}{3} + \frac{4}{5}A = 2\frac{1}{5}$$

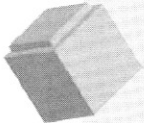
Simplify.

$$15. -6^2 - (-6)^2 =$$

$$16. 5 + 5 - (-7) =$$

$$17. -[-(-7)] =$$

$$18. (-8)^2 =$$



QUICK REVIEW

To find the percent of a number, change the percent to a decimal and multiply.

EXAMPLE Shipping is 8%. What will it cost to ship a package worth \$25.50?

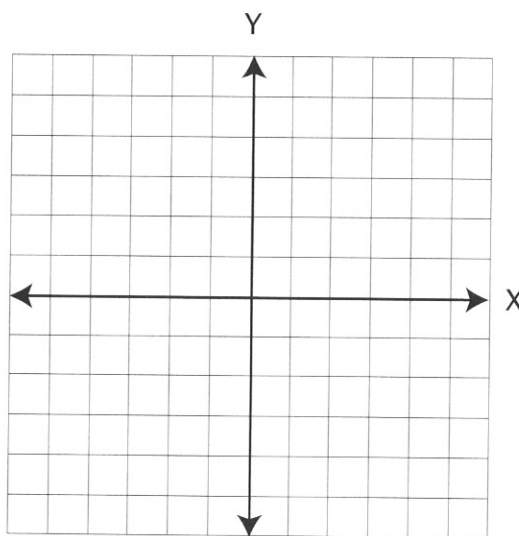
8% is the same as .08.

$$25.50 \times .08 = \$2.04 \text{ cost of shipping}$$

19. Mr. Brown gets a profit of 25% of the total (retail) cost of each item he sells. What is his profit on an item that sells for \$76.98? Round your answer to the nearest hundredth.
20. Forty-five percent of the people had brown eyes. If there were 600 people, how many had brown eyes?

SYSTEMATIC REVIEW

1. Plot the points (5, 1) and (-1, -5).
2. Make a right triangle and determine the slope.
3. Estimate the intercept by extending the line until it intercepts the Y-axis.
4. Describe the line using the slope-intercept form, and then give the standard form of the equation of a line.
5. Which of the following lines is parallel to $Y = \frac{1}{4}X - 3$?
 - A. $2Y = \frac{1}{3}X + 2$
 - B. $4Y = 4X + 3$
 - C. $3Y = \frac{3}{4}X + 6$
6. Draw a line that is parallel to $Y = \frac{1}{4}X - 3$ while passing through the point (0, -1).
7. Describe the new line using the slope-intercept form.
8. What will be the slope of a line parallel to $3Y = -6X + 9$?
9. Rewrite in the standard form of the equation of a line: $Y = 2X + 5$.
10. Rewrite using the slope-intercept form: $4Y + 2X = 8$.



Simplify and solve for the unknown.

$$11. |-1 - 1 - 1 - 1|^2 = (-1)^2 + B(-1) \div 1$$

$$12. (3 + 5)^2 + |8 - 11| + Z = 4(Z - 2)$$

$$13. 5(B - 6) + 4(2B + 7) = 102$$

$$14. 55Q - 30Q = 125$$

Simplify.

$$15. -\{-[-(-8)]\}$$

$$16. -9^2 =$$

$$17. -(-4) =$$

$$18. 3^2 + (-3)^2 =$$

19. A Canadian came to America and exchanged his money for U.S. dollars at an exchange rate of 76%. If he exchanged \$200, how much did he receive in U.S. funds? (Find 76% of 200.)

20. $WF \times 8 = 2$ (Check your answer by multiplying.)