

LESSON PRACTICE

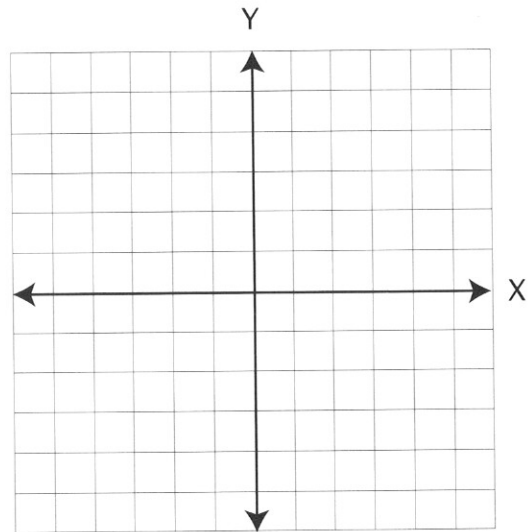
Follow the directions for each graph.

1. Plot the points $(-4, 3)$ and $(4, 1)$.

2. Make a right triangle and determine the slope.

3. Extend the line and estimate the Y-intercept.

4. Describe the line with the slope-intercept form.



5. Which of the following lines is perpendicular to the line you drew?

- A. $2Y = 8X - 10$
 B. $Y = -1/4 X - 2$
 C. $4Y = -X + 8$

6. Draw a line that is perpendicular to the original line while passing through the point $(-2, -4)$.

7. Describe the new line with the slope-intercept form.

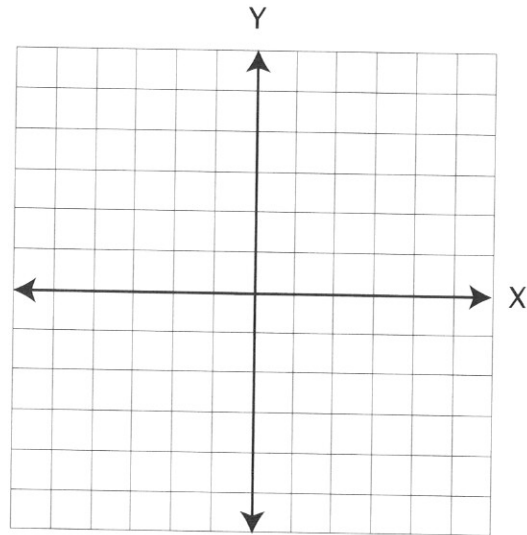
8. Describe the new line using the standard form of the equation of a line.

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

10. Make a right triangle and determine the slope.

11. Extend the line and estimate the Y-intercept.

12. Describe the line with the slope-intercept form.



13. Which of the following lines is perpendicular to the line you drew?

A. $Y = -X + 1$

B. $Y = \frac{1}{2} X - 1$

C. $Y = -\frac{1}{2} X + 2$

14. Draw a line that is perpendicular to the original line while passing through the point (1, -5).

15. Describe the new line with the slope-intercept form.

16. Describe the new line using the standard form of the equation of a line.

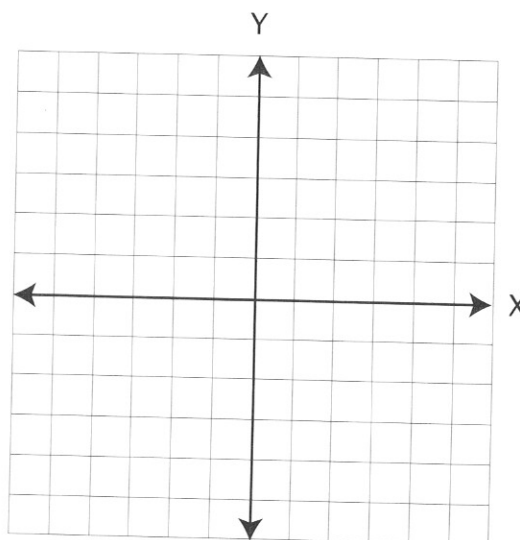
SYSTEMATIC REVIEW

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

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 in the standard form of the equation of a line.



5. Which of the following lines is perpendicular to the line in #4?

A. $Y = -\frac{1}{3}X + 3$

B. $Y = -3X - 1$

C. $4Y = -12X - 4$

6. Draw a line that is perpendicular to the line given in #4 while passing through the point $(3, -3)$.

7. Describe the perpendicular line with the slope-intercept form, and then with the standard form of the equation.

8. Draw a line that is perpendicular to the line given in #4 while passing through the point $(0, -4)$.

9. Describe the new line with the slope-intercept form, then with the standard form of the equation of a line.

10. What do you notice about the slopes of the lines you drew for #6 and #8?

Simplify and solve for the unknown.

11. $6X - X + 3 = 4X + 7$

12. $-2X - X + 12 = X - 12$

13. $|-(3 + 7)| - 4^2 + (-4)^2 = 2R$

14. $-3\frac{1}{2}Y + \frac{2}{9} = -\frac{4}{3}$

15. 60% of the shoe store's receipts go towards paying for the shoes (cost of goods sold). What percent of the receipts is profit? (Hint: Remember that cost plus profit equals 100%.)

16. If the first-quarter sales totaled \$12,900, what is the amount of profit?

17. Self-employment tax is 15.3% of the profit. How much do you, the proprietor, have to pay?

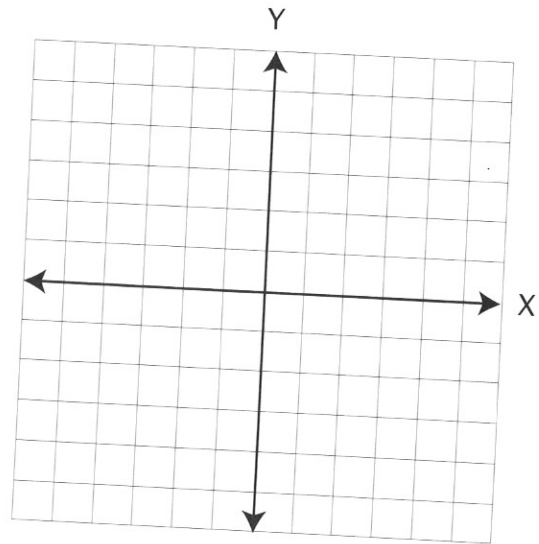
18. If two bits is worth 25¢, how much is one bit worth?

19. How much is eight bits worth?

20. At the beginning of the year, Devan had \$3.00. Each week thereafter, his uncle gave him \$5.00. Write an equation showing how his money increased.

SYSTEMATIC REVIEW

1. Plot the points $(2, -3)$ 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 with the slope-intercept form, and then give in the standard form.



5. Which of the following lines is perpendicular to the line in #4?
 - A. $Y = 1/2 X - 1$
 - B. $Y = 5/2 X + 2$
 - C. $3Y = 6X - 3$
6. Draw a line that is perpendicular to the line given in #4 while passing through the point $(4, 1)$.
7. Describe the perpendicular line with the slope-intercept form, and then with the standard form of the equation.
8. Draw a line perpendicular to the line given in #4 passing through the point $(2, 4)$.
9. Describe the new line with the slope-intercept form, and then with the standard form of the equation of a line.
10. What do you notice about the slopes of the lines you drew for #6 and #8?

Simplify and solve for the unknown.

11. $2X + 2 - X + 2X = 3X - 3 + 10 - X$

12. $3Y - 1 + 2Y - 1 - 4Y = 2Y + 3 + Y + 1$

13. $-(6 + 7)^2 + (10 + 5)^2 = 5M$

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

15. 55% of the shoe store's receipts go towards paying for the shoes (cost of goods sold). What percent of the receipts is profit?

16. If the second-quarter sales totaled \$9,645, what is the amount of profit?

17. Self-employment tax is 15.3% of the profit. How much do you, the proprietor, have to pay?

18. If two bits is worth 25¢, how many bits are in \$2.50?

19. How much is 100 bits worth?

20. At the beginning of the month, the vine measured five feet. Thereafter, it grew one foot per week. Write an equation describing the growth of the vine.