LESSON PRACTICE

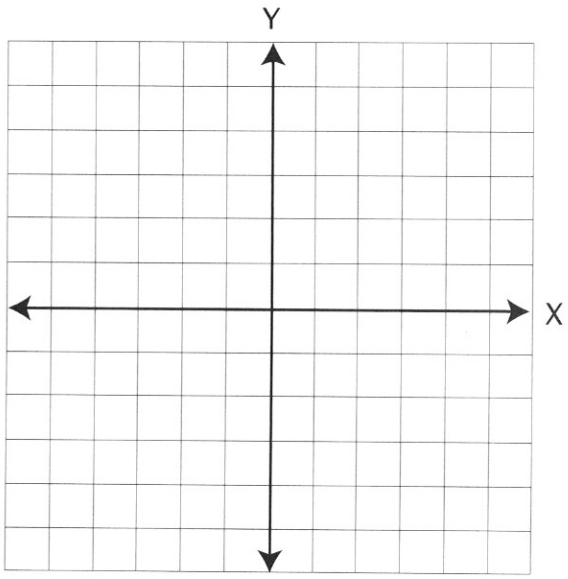
Follow the directions for each set of equations.

For #1-3 $X - Y = 3$, $3X - Y = 13$

1. Draw each line and estimate the solution.

2. Use the elimination method to find X.

3. Using the solution to #2, substitute to find Y.

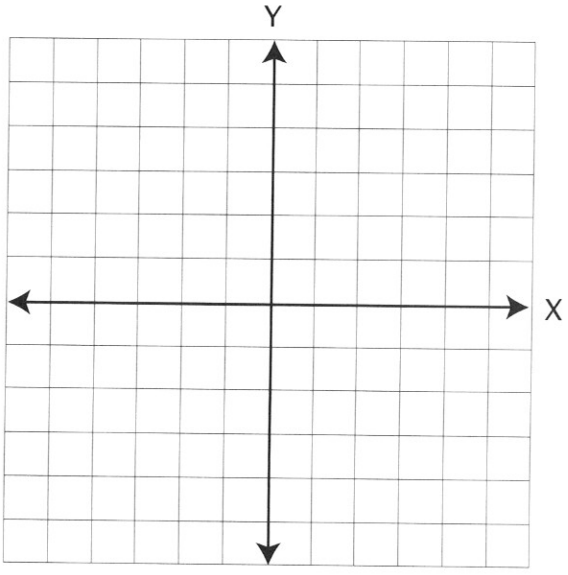


For #4-6 $3X - Y = -10$, $2X - Y = -8$

4. Draw each line and estimate the solution.

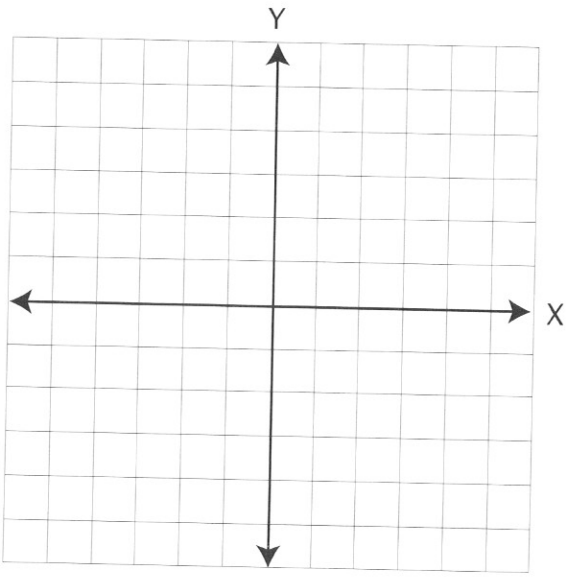
5. Use the elimination method to find X.

6. Using the solution to #5, substitute to find Y.



For #7–9 $3X + 2Y = 5,\ X - Y = 0$

7. Draw each line and estimate the solution.



8. Use the elimination method to find X.

9. Using the solution to #8, substitute to find Y.

For #10 $X + Y = -3,\ 3X - Y = -1$

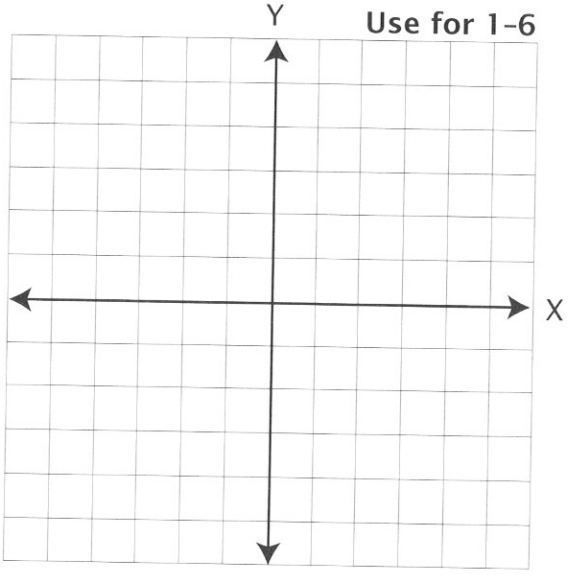
10. Use the elimination method to solve the equations.

SYSTEMATIC REVIEW

For #1-3 $2Y + 3X = -2$ and $2Y - X = 6$

1. Sketch and estimate the solution.
2. Using the elimination method, find Y.
3. Using the solution to #2, find X.

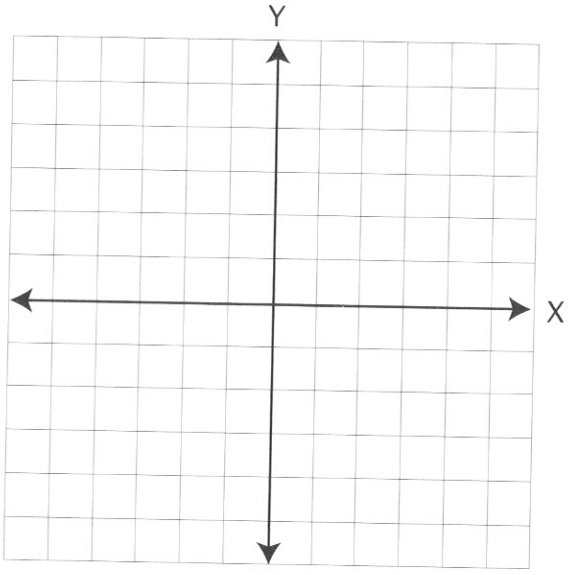
Use for 1-6



For #4-6 $Y + 3X = 2$ and $Y - X = -2$

4. Sketch and estimate the solution.
5. Using the elimination method, find X.
6. Using the solution to #5, find Y.

Use for 7-9



For #7-9 $-2Y > 3X + 6$

7. Rewrite using the slope-intercept form.
8. Graph the inequality.
9. Will the point (3, -4) satisfy the inequality?

10. Find the slope of a line parallel to $Y = 1/2\ X - 3$ through $(-1, 1)$.

11. Find the Y-intercept of the line in #10.

12. Describe the line in #10 using the slope-intercept form, then give the equation of the line in standard form.

13. Fill in the blanks in both lines so that the values match.

____, ____, ____, 16, ____, 36, ____, ____, 81 , ____, 121, ____, ____, ____, ____

____, 2^2, ____, ____, ____, ____, 7^2, ____, ____, ____, ____, ____, 13^2, ____, ____

14. Use algebraic symbols to represent the following: six times a number, minus four, equals ten times the number, divided by 2.

15. Solve for the unknown in #14.

16. Use the value of the unknown found in #15 to find the value of this expression: $X^2 - 2X + |3 - 4| =$

17. 14% of 25 =

18. WF x 16 = 8

19. $3.14 \div 2.4 =$ (to nearest thousandth)

20. Three fourths divided by five-sixths equals _____

For #1-3 $3Y + 2X = 12$ and $4Y - X = 5$

1. Sketch and estimate the solution.

2. Using the elimination method, find Y.

3. Using the solution to #2, find X.

For #4-6 $X + Y = 4$ and $2X + Y = 6$

4. Sketch and estimate the solution.

5. Using the elimination method, find X.

6. Using the solution to #5, find Y.

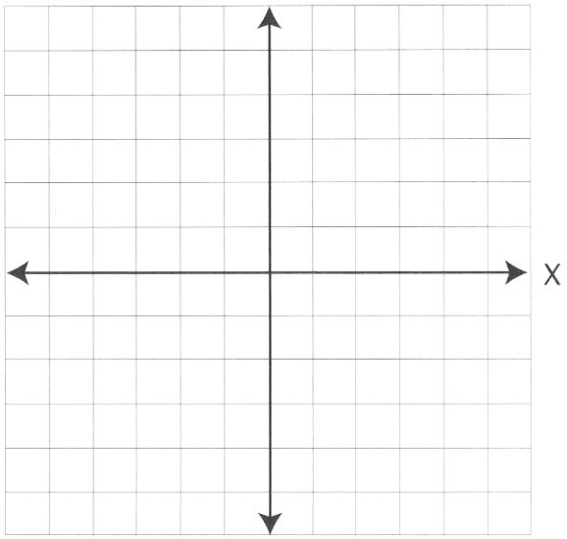
For #7-9 $5Y \geq 4X + 10$

7. Rewrite using the slope-intercept form.

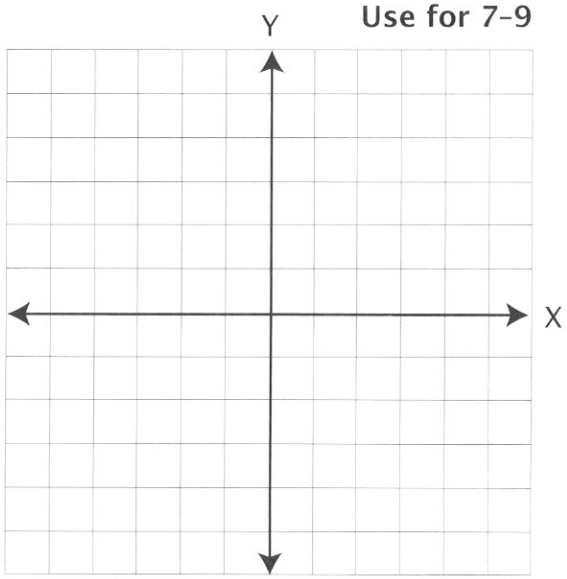
8. Graph the inequality.

9. Will the point (2, 1) satisfy the inequality?

Use for 1-6



Use for 7-9



10. Find the slope of a line perpendicular to $Y = \frac{1}{2} X - 3$ through (-1, 1).

11. Find the Y-intercept of the line in #10.

12. Describe the line in #10 using the slope-intercept form, then give the equation of the line in standard form.

13. Fill in the blanks in both lines so that the values match.

____, ____, 9, ____, ____, ____, 49, 64, ____, ____, ____, 144, ____, ____, ____

____, ____, ____, ____, 5^2, ____, ____, ____, 9^2, ____, 11^2, ____, ____, ____, ____

14. Use algebraic symbols to represent the following: three times a number, minus four times the number, plus eight, equals three times the number.

15. Solve for the unknown in #14.

16. Use the value of the unknown found in #15 to find the value of this expression: $3X^2 - X \div |4 - 3| =$

17. 48% of 32 =

18. WF x 75 = 5

19. 21.8 ÷ .4 =

20. Two-sevenths divided by one-half equals ____