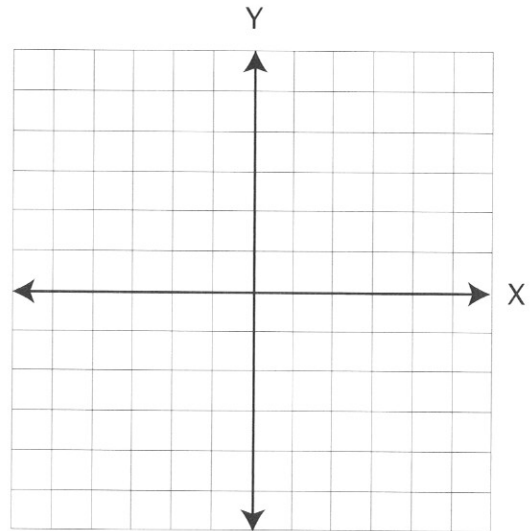


LESSON PRACTICE

Follow the directions for each set of equations.

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

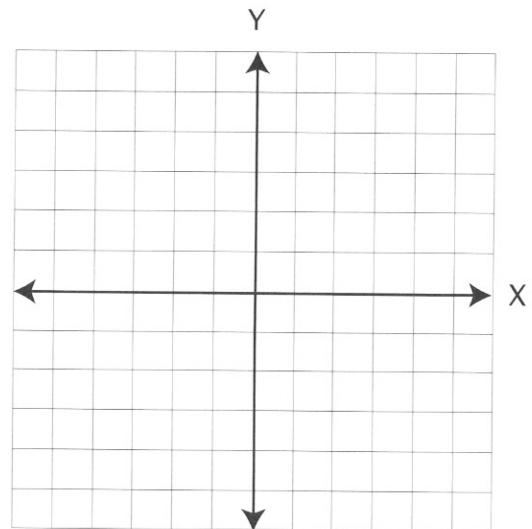
1. Draw each line and estimate the solution.
2. Use the substitution method to find Y .
3. Using the solution to #2, substitute to find X .



The Y -intercept for one of the next lines in #4 is off the graph. See if you can estimate where it should be. If you can't, use a larger piece of graph paper.

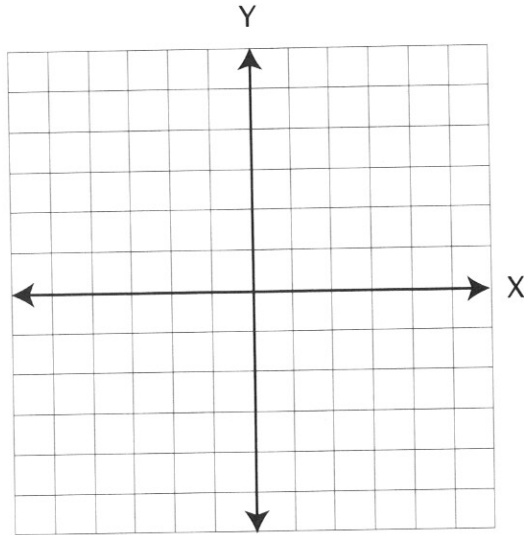
For #4-6 $2X - Y = 4$, $Y = -X + 11$

4. Draw each line and estimate the solution.
5. Use the substitution method to find Y .
6. Using the solution to #5, substitute to find X .



For #7-9 $2X + Y = -1$, $Y = -3X$

7. Draw each line and estimate the solution.
8. Use the substitution method to find Y.
9. Using the solution to #8, substitute to find X.



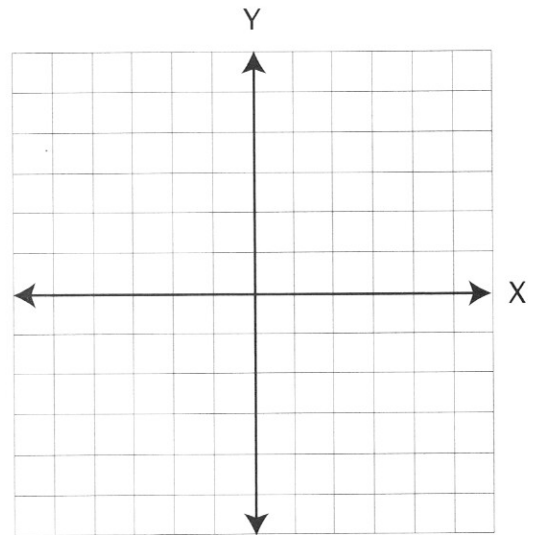
For #10 $2X + 3Y = 29$, $5X - Y = 30$

10. Use the substitution method to solve the equations. First change the second equation to the slope-intercept form.

SYSTEMATIC REVIEW

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

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



For #4-6 $Y - X = 4$ and $Y + 2X = 1$.

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

7. Find the slope through (4, 5) and (1, 3) by computing. $\frac{Y_2 - Y_1}{X_2 - X_1} = m$

8. Find the Y-intercept of the line in #7.

9. Describe the line in #7 using the slope-intercept form, then using the standard equation of a line.

10. Find the slope of a line parallel to $Y = -\frac{4}{3}X - 2\frac{1}{3}$ that passes through (2, 2).

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

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

13. Fill in the blanks so that each value in the second line is the same as the value directly above it.

____, 4, 9, ____, ____, ____, ____, 64, ____, ____, 121, ____, ____, ____, 225

1^2 , ____, ____, 4^2 , ____, ____, ____, ____, 9^2 , 10^2 , ____, ____, ____, ____, 15^2

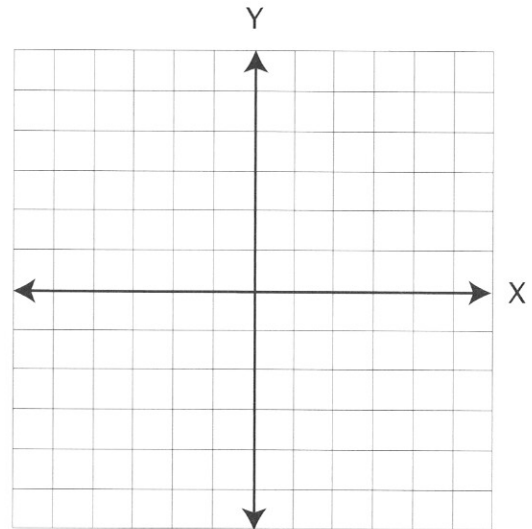
For #14-16 Use a USA map to find the following information. Assume 25 mpg and 50 mph.*

14. Day One: Travel between Seattle and San Francisco. How far will we go?
15. We leave at 7:35 AM and our ETA (estimated time of arrival) is _____.
16. How much gasoline is consumed?
At \$1.269 per gallon, how much does it cost?
17. Write $12/13$ as a decimal rounded to the nearest thousandth.
18. Distribute: $A(2A - A + 3) =$
19. Is 97 prime or composite?
20. What is the least common multiple of 6 and 4?

SYSTEMATIC REVIEW

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

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



For #4-6 $Y + X = -5$ and $Y - 2X = 4$.

4. Sketch and estimate the solution.
5. Using the substitution method, find X.
6. Using the solution to #5, find Y.
7. Find the slope through $(0, 0)$ and $(-2, 4)$ by computing. $\frac{Y_2 - Y_1}{X_2 - X_1} = m$
8. Find the Y-intercept of #7.
9. Describe the line in #7 using the slope-intercept form, then using the standard equation of a line.
10. Find the slope of a line perpendicular to $Y = -\frac{4}{3}X - 2\frac{1}{3}$ that passes through $(2, 2)$.
11. Find the Y-intercept of the line in #10.
12. Describe the line in #10 using the slope-intercept form, then using the standard equation of a line.

13. Fill in the blanks so that each value in the second line is the same as the value directly above it.

1, _____, _____, _____, 25, _____, _____, _____, 81, _____, _____, 144, _____, _____, _____
 _____, 2^2 , _____, _____, _____, 6^2 , _____, _____, _____, _____, _____, 12^2 , 13^2 , _____, 15^2

For #14-16 Use a USA map to find the following information.
 Assume 25 mpg and 50 mph.

14. Day Two: Travel between San Francisco and Los Angeles.
 How far will we go?
15. We leave at 6:14 AM and our ETA
 (estimated time of arrival) is _____ .
16. How much gasoline is consumed?
 At \$1.199 per gallon, how much does it cost?
17. Write $9/28$ as a decimal rounded to the nearest thousandth.
18. Use the GCF to simplify $9A + 27B - 81 = 18C$.
19. What are the prime factors of 435?
20. $\sqrt{64} =$