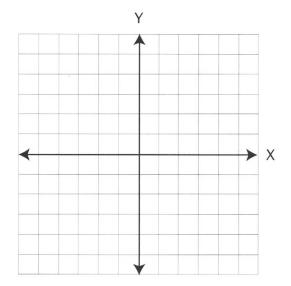
LESSON PRACTICE

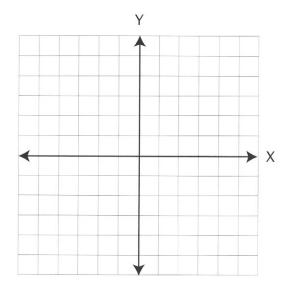
13B

Follow the directions for each graph.

- 1. Draw line a: Y = 2X + 5/2.
- 2. Draw line *b*: Y = -1/2 X + 5/2.
- 3. What is the point where line *a* and line *b* intersect?
- 4. Draw line c: Y = -1/2 X 2.
- 5. Draw line *d*: Y = -X 3.
- 6. What is the point where line *c* and line *d* intersect?

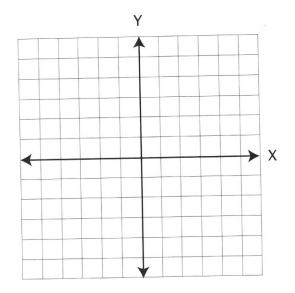


- 7. Draw line e: X Y = 2.
- 8. Draw line f: X + 3Y = 6.
- 9. What is the point where line *e* and line *f* intersect?
- 10. Draw line g: 2X + Y = -2.
- 11. Draw line h: Y = 1/3 X + 5.
- 12. What is the point where line *g* and line *h* intersect?

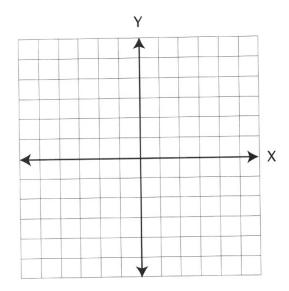


LESSON PRACTICE 13B

- 13. Draw line j: 4Y = -X + 12.
- 14. Draw line k: Y = X + 3.
- 15. What is the point where line *j* and line *k* intersect?



- 16. Draw line r: 2Y = -X 2.
- 17. Draw line s: Y = 1/2 X 3.
- 18. What is the point where line *r* and line *s* intersect?

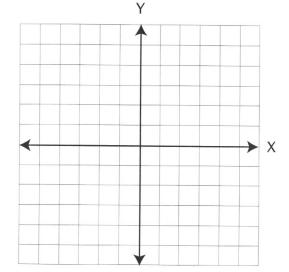


SYSTEMATIC REVIEW

13C

Follow the directions.

- 1. Draw line a: Y = -4X 2. Label it a.
- 2. Draw line b: Y = X + 3. Label it b.
- 3. Record the point where line *a* and line *b* intersect.



4. Given: m = -4 through the point (1, -3).

Find the intercept (b).

- 5. Describe the line in #4 using the slope-intercept form, then using the standard equation of a line.
- 6. Find the slope through (5,1) and (-5, -5) by computing.

$$\frac{Y_2 - Y_1}{X_2 - X_1} = m$$

- 7. Find the intercept of the line in #6.
- 8. Describe the line in #6 using the slope-intercept form, then using the standard equation of a line.
- 9. Find the slope and intercept of a line parallel to Y = 2/3 X + 3 that passes through (4, 4).
- 10. Describe the line in #9 using the slope-intercept form, then using the standard equation of a line.

SYSTEMATIC REVIEW 13C

Simplify and solve.

11.
$$8X - 3X + 7 = 4X + 8$$

12.
$$4Q + 12 = 20$$
 (Remember the GCF)

13.
$$5^2 \div 5 + 3(X + 7) = 2X + 27$$

13.
$$5^2 \div 5 + 3(X + 7) = 2X + 27$$
 14. $7^2 \times 2 - 4(Y + 11) = 3Y - 2$

15. .6 -
$$\frac{2}{3}$$
X = 11 (Hint: First change all numbers into fractions.)

16.
$$|-8-4|-6Y=32 \div |-8|$$

For #17-18: Mario's car has a 16-gallon tank. He left for a four-day round trip.

- 17. Day 1: He left at 7:45 AM and arrived at 2:15 PM after driving 338 miles. What was his average speed in miles per hour? (Tip: Find number of hours and divide that number into 338.)
- 18. When he left, he had a full tank of gas. At the end of the day, it took 13 gallons to refill his tank. How many miles per gallon did he get? (Tip: Divide the number of miles driven by the number of gallons used.)
- 19. Fill in the blanks and explain the pattern. 2, 4, 8, 16,____,___,___
- 20. Fill in the blanks and explain the pattern.

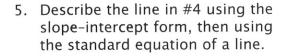
SYSTEMATIC REVIEW

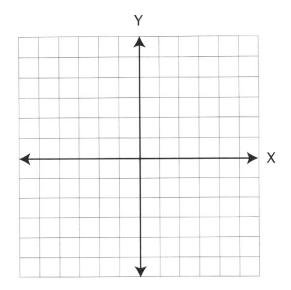
13D

Follow the directions.

- 1. Draw line *a*: $Y = -\frac{1}{2} X + 1$. Label it *a*.
- 2. Draw line *b*: $Y = -\frac{3}{2}X + 5$. Label it *b*.
- 3. Record the point where line *a* and line *b* intersect.
- 4. Given: $m = -\frac{3}{2}$ through the point (-1, 1).

Find the intercept (b).





- 6. Find the slope through (-4, 2) and (1, -4) by computing. $\frac{Y_2 Y_1}{X_2 X_1} = m$
- 7. Find the intercept of the line in #6.
- 8. Describe the line in #6 using the slope-intercept form, then using the standard equation of a line.
- 9. Find the slope and intercept of a line parallel to $Y = -\frac{4}{3}X + 1$ that passes through (2, -3).
- 10. Describe the line #9 using the slope-intercept form, then using the standard equation of a line.

SYSTEMATIC REVIEW 13D

Simplify and solve.

11.
$$16X - 8X = 56$$

12.
$$18A - 15 = 24$$

13.
$$(1-7)^2 - 8N + 11 = -3$$

14.
$$.78 + .4 = 2X$$

15.
$$.3 + \frac{1}{2}A = 2A - 1.8$$

16.
$$(4-8)^2 \times 6 - 3 \times 5^2 = 7Y$$

For #17–18: Mario's car has a 16–gallon tank. He left for a four–day round trip.

- 17. Day 2: He left at 6:50 AM and arrived at 2:05 PM after driving 348 miles. What was his average speed in miles per hour?
- 18. When he left, he had a full tank of gas. At the end of the day, it took 14.5 gallons to refill his tank. How many miles per gallon did he get?
- 19. Fill in the blanks and explain the pattern.

20. Fill in the blanks and explain the pattern.