

Name: key
Algebra 1

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Unit 1: Foundations of Algebra

What is an algebraic expression for the word phrase?

1. 9 less than the quotient of 6 and a number x $\frac{6}{x} - 9$
 2. 8 less than the product of a number x and 4 $4x - 8$

LT#1: Simplify expressions involving exponents.

3. In the absence of predators, the rabbit population in a forest has grown to 5^6 over the past 5 years. What is the rabbit population in the forest? $5^6 = 5 \cdot 5 \cdot 5 \cdot 5 \cdot 5 \cdot 5 = 15625$

LT#2: Use order of operations to evaluate expressions.

4. What is the value of $-9 + (2^3 - 3^2)$? $-9 + (8 - 9) = -9 + (-1) = -10$
5. What is the value of $3^3 - (4^2 - 2^3)$? $27 - (16 - 8) = 27 - (8) = 19$
6. Simplify $8^2 \div 4 + 3(6 - 3) + 2^3$. $64 \div 4 + 3(3) + 8 = 16 + 9 + 8 = 33$
7. What is the value of $3 + |x - 2|$ for $x = -3$? $3 + |-3 - 2| = 3 + |-5| = 3 + 5 = 8$
8. Evaluate $x(y - z)^2$ for $x = -1$, $y = 5$, and $z = -3$. $-1(5 - (-3))^2 = -1(8)^2 = -1(64) = -64$
9. Simplify: $7 \cdot 4^2 \div 8 - 12$ $7 \cdot 16 \div 8 - 12 = 112 \div 8 - 12 = 14 - 12 = 2$
10. What is the value of $\frac{3m^2 - mn}{2mn^2}$ when $m = -1$ and $n = 2$? $\frac{3(-1)^2 - (-1)(2)}{2(-1)(2)^2} = \frac{3 - (-2)}{-2(4)} = \frac{5}{-8}$
11. Evaluate each expression for $x = 3$ and $y = 2$.
 A. $-4x + 3y$ $-4(3) + 3(2) = -12 + 6 = -6$
 B. $\frac{x^2 - y}{4x}$ $\frac{3^2 - 2}{4(3)} = \frac{9 - 2}{12} = \frac{7}{12}$
12. Simplify: $14 + 2 \times 8 - 5^2 + 3^2$
 $14 + 16 - 25 + 9 = 14$
13. Evaluate each expression for $x = -7$.
 A. $|x - 3|$ $|-7 - 3| = |-10| = 10$
 B. $|x + 3|$ $|-7 + 3| = |-4| = 4$
14. Evaluate $b^2 - 4ac$ for $a = -1$, $b = -5$, and $c = 2$.
 $(-5)^2 - 4(-1)(2) = 25 - (-8) = 33$
15. Simplify $4 - 3(2^2 - 5)$.
 $4 - 3(4 - 5) = 4 - 3(-1) = 4 - (-3) = 7$
16. Simplify: $4x - 6y + 8y - 6x - 12y$
 $-2x - 10y$
17. What is the value of $15 - (6^2 - 5^2)$?
 $15 - (36 - 25) = 15 - (11) = 4$

18. Simplify $3(-5x - 7) - (6x)$. $-15x - 21 - 6x = \boxed{-21x - 21}$

19. Evaluate $-3a(2b - 4c)$ for $a = -3, b = 2,$ and $c = -7$. $-3(-3)(2(2) - 4(-7))$

20. Simplify $9^3 \div 3^3 - 5(8 - 4) + 9^2$. $729 \div 27 - 5(4) + 81 = 27 - 20 + 81 = \boxed{88}$

21. What is the value of the expression $(-8)(6) - (-4)(-5) + (-3)(-6)$? $-48 - 20 + 18 = \boxed{-50}$

22. Simplify $6^2 + 15 \div 3 + 4 \times 3$. $36 + 15 \div 3 + 12 = \boxed{53}$

23. What is $\frac{8x+3y^2}{4y-3x}$ when $x = 2$ and $y = 3$? $\frac{8(2) + 3(3)^2}{4(3) - 3(2)} = \frac{16 + 3(9)}{12 - 6} = \frac{16 + 27}{6} = \frac{43}{6}$

24. Evaluate each expression.

A. x^2 for $x = -5$ $(-5)^2 = 25$

B. $-x^2$ for $x = -5$ $-(-5)^2 = \boxed{-25}$

LT#3: Classify, graph, and compare real numbers.

25. What is the order of the numbers $\sqrt{12}, -3.5, \frac{5}{1.6}, -\frac{2}{3}$ from least to greatest? $-3.5 < -\frac{2}{3} < \frac{5}{3} < \sqrt{12}$

26. What type of number can be written in the form $\frac{a}{b}$, where a and b are integers, and $b \neq 0$?
 rational numbers

27. Describe four different subsets of real numbers. Explain the differences between the various subsets. Give several examples of each subset.
 rational (fractions) $\{\frac{2}{3}, .6, .234\}$
 natural (counting #'s) $\{1, 2, 3, \dots\}$
 whole $\{0, 1, 2, 3, \dots\}$
 integer (positive, negative, #s) $\{\dots, -1, 0, 1, \dots\}$
 irrational $\{.1234\dots, \sqrt{2}, \pi\}$

LT#4: Identify and use properties of real numbers.

28. Which property is illustrated by $(3 + 5) + 7 = 3 + (5 + 7)$? **Associative Property of Addition**

29. Which property is illustrated by $45 + 19 = 19 + 45$? **Commutative Property of Addition**

30. Which property is illustrated by $a(b + c) = ab + ac$? **Distributive Property**

LT#5: Find sums and differences of real numbers.

LT#6: Find products and quotients of real numbers.

31. Which ordered pair is NOT a solution of $y = 2x + 1$?

- A. (3,7)
- B. (0,1) $1 = 2(-1) + 1$
- C. (-1,1) $1 = -2 + 1$
- D. (-3,-5) $1 = -1$

32. Tatiana purchased 5 tickets online for a show. The tickets cost \$12 each plus there was a \$3.50 service fee for the order. How much money did Tatiana spend for the tickets?

$5(12) + 3.50 = \boxed{63.50}$

33. What is the value of the expressions $(-7)(3) - (5)(-3)$?

$-21 - (-15)$
 $-21 + 15$
 $\boxed{-6}$

LT#7: Use the Distributive Property to simplify expressions.

34. Simplify: $-3.2(2x - 2.1)$ $-6.4x + 6.72$

35. Simplify: $4(2x + 1) - (-6x)$? $8x + 4 + 6x = 14x + 4$

36. Simplify $(x^2 + 6) - (3x^2 - 2x - 5)$ $x^2 + 6 - 3x^2 + 2x + 5 = -2x^2 + 2x + 11$

37. What is the simplified form of $-3(x + 4)$? $-3x - 12$

38. What is the simplified form of $5 - 4y + 2x - 3y - 2 + 5x$? $3 - 7y + 7x$

39. Simplify $(ab^2 + 10 + a) - (6ab^2 - 2ab + 8)$

$$ab^2 + 10 + a - 6ab^2 + 2ab - 8$$

$$-5ab^2 + 2ab + a + 2$$

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Unit 2: Solving Equations

LT#1: Solve one-step equations in one variable.

LT#2: Solve two-step equations in one variable.

1. What is the solution of the equation $9x + 12 = 39$?

$$\begin{array}{r} 9x + 12 = 39 \\ -12 \quad -12 \\ \hline 9x = 27 \\ \frac{9x}{9} = \frac{27}{9} \\ x = 3 \end{array}$$
2. What is the solution of $-6x + 15 = -3$?

$$\begin{array}{r} -6x + 15 = -3 \\ -15 \quad -15 \\ \hline -6x = -18 \\ \frac{-6x}{-6} = \frac{-18}{-6} \\ x = 3 \end{array}$$
3. Solve: $6n - 7 = 35$

$$\begin{array}{r} 6n - 7 = 35 \\ +7 \quad +7 \\ \hline 6n = 42 \\ \frac{6n}{6} = \frac{42}{6} \\ n = 7 \end{array}$$
4. If $7x + 3 = 24$, what is the value of $5 - 4x$?

$$\begin{array}{r} 7x + 3 = 24 \\ -3 \quad -3 \\ \hline 7x = 21 \\ \frac{7x}{7} = \frac{21}{7} \\ x = 3 \end{array}$$

$$5 - 4(3) = 5 - 12 = -7$$
5. Jordana is taking her family to the fair. She plans to take \$5 for each admission ticket plus \$35 for food. Write an equation that models the amount of money Jordana takes to the fair.
 $t = \# \text{ tickets}$ $m = \$$ $m = 5t + 35$

LT#3: Solve multi-step equations in one variable.

6. Find three consecutive integers whose sum is 66.

$$\begin{array}{r} x + x + 1 + x + 2 = 66 \\ 3x + 3 = 66 \\ \hline 3x = 63 \\ \frac{3x}{3} = \frac{63}{3} \\ x = 21 \end{array}$$
21, 22, 23
7. Fanta scored 5 points more than $\frac{4}{5}$ of Uyen's test score. Which equation represents the relationship between Fanta's test score, F , and Uyen's test score, U ?

$$F = \frac{4}{5}U + 5$$
8. The sum of two consecutive integers is 153. Write an equation that can be used to find the first integer n .

$$n + n + 1 = 153$$
 $2n + 1 = 153$
9. Admission to the movie is \$7.50 for adults and \$3.50 for students. The theater's goal is to receive \$1500 in revenue for the evening. Write an equation that models this relationship.
 $a = \# \text{ adults}$ $s = \# \text{ students}$ $7.50a + 3.50s = 1500$
10. Solve $-4(5 - 2x) = 8$

$$\begin{array}{r} -4(5 - 2x) = 8 \\ -20 + 8x = 8 \\ +20 \quad +20 \\ \hline 8x = 28 \\ \frac{8x}{8} = \frac{28}{8} \\ x = \frac{7}{2} \end{array}$$

LT#4: Solve equations with variables on both sides.

LT#5: Identify equations that are identities or have no solution.

11. What is the solution of $4x - 6 = -6x - 4$?

$$\begin{array}{r} 4x - 6 = -6x - 4 \\ +6x \quad +6x \\ +4 \quad +4 \\ \hline 10x - 2 = 0 \\ +2 \quad +2 \\ \hline 10x = 2 \\ \frac{10x}{10} = \frac{2}{10} \\ x = \frac{1}{5} \end{array}$$
12. Solve: $-2(3x + 2) = 2x + 6$

$$\begin{array}{r} -6x - 4 = 2x + 6 \\ +6x \quad +6x \\ +4 \quad +4 \\ \hline -8x = 10 \\ \frac{-8x}{-8} = \frac{10}{-8} \\ x = -\frac{5}{4} \end{array}$$
13. Solve: $3(5x - 6) = -63$

$$\begin{array}{r} 15x - 18 = -63 \\ +18 \quad +18 \\ \hline 15x = -45 \\ \frac{15x}{15} = \frac{-45}{15} \\ x = -3 \end{array}$$

LT#6: Solve and apply proportions.

14. What is the solution of $\frac{3}{5} = \frac{x}{15}$?

$x = 9$ $\frac{5x}{5} = \frac{45}{5}$

15. Solve: $\frac{3}{4} = \frac{8}{x-1}$

$3(x-1) = 32$
 $3x - 3 = 32$
 $3x = 35$ $x = \frac{35}{3}$

16. Solve: $\frac{x-1}{2} = \frac{x+3}{-1}$

$-1(x-1) = 2(x+3)$
 $-x + 1 = 2x + 6$
 $-x - 6 = 2x + 6$
 $-5 = 3x$
 $x = -\frac{5}{3}$

17. What is the solution of $\frac{3}{2.5} = \frac{d}{75}$?

$\frac{2.5d}{2.5} = \frac{225}{2.5}$ $d = 90$

LT#12: Solve percent problems using proportions.

LT#13: Solve percent problems using the percent equation.

18. What percent of 86 is 50 to the nearest whole percent?

$p\% \cdot 86 = 50$ $p\% = .58$ $p = 58\%$

19. The Girl Scouts hoped to raise \$1000 selling cookies. Instead, they raised \$1050. What percent of their goal did they achieve?

$\frac{1050}{1000} = 1.05 \times 100\% = 105\%$

LT#14: Find percent change.

20. A store's cost for a stereo was \$27. The markup was 75%. A customer purchased it on sale at 40% off the marked up price. What was the purchase price of the stereo?

$1.75(27) = 47.25 \cdot .60 = 28.35$

21. Find the percent decrease for each situation.

A. \$250 is discounted to \$212.50 $15\% = \frac{250 - 212.50}{250} \cdot 100$

B. \$40 is discounted to \$32 $20\% = \frac{40 - 32}{40} \cdot 100$

22. The price of the car was marked as \$14,000. The end of the month sale has lowered the price to \$12,500. What is the percent decrease to the nearest percent?

$\frac{14000 - 12500}{14000} \cdot 100 = 11\%$

23. A company's sales of garden tractors increased about 106% from 2007 to 2008. The number of tractors sold in 2007 was 347. How many tractors were sold in 2008?

$1.06 \cdot 347 \approx 368$

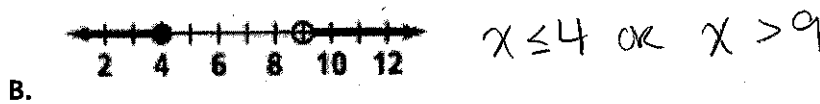
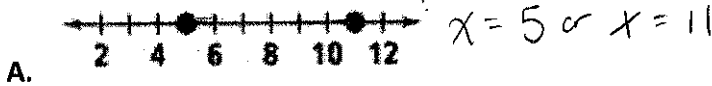
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Unit 3: Solving Inequalities

LT#1: Write, graph, and identify solutions of inequalities.

1. Write an inequality for the following graphs.



2. Which ordered pair is a solution of $y \leq -6x - 7$?

- A. ~~(0.5, -4)~~ $-4 \leq -6(0.5) - 7$ $-19 \leq -6(2) - 7$
- B. (2, -19) $-4 \leq -10$ $-19 \leq -12 - 7$
- C. ~~(-2, -5)~~ NO $-19 \leq -19$
- D. ~~(3, 11)~~ YES

3. Which is NOT a solution of $3x - 5 < 17$?

- A. ~~-4~~ $3(-4) - 5 < 17$
- B. ~~5~~ $3(5) - 5 < 17$
- C. ~~7~~ $3(7) - 5 < 17$
- D. 12 $3(12) - 5 < 17$

4. Which is a solution of $-8x + 5 \geq 11$?

- A. ~~$-\frac{1}{2}$~~ $-8(-\frac{1}{2}) + 5 \geq 11$ $-8(3) + 5 \geq 11$ $-8(0.25) + 5 \geq 11$ $-8(-1) + 5 \geq 11$
- B. ~~3~~ $4 + 5 \geq 11$ $-24 + 5 \geq 11$ $-2 + 5 \geq 11$ $8 + 5 \geq 11$
- C. ~~0.25~~ $9 \geq 11$ $-19 \geq 11$ $3 \geq 11$ $8 + 5 \geq 11$
- D. -1 NO NO NO NO $13 \geq 11$

LT#2: Use addition or subtraction to solve inequalities.

LT#3: Use multiplication or division to solve inequalities.

LT#4: Solve multi-step inequalities.

5. Solve each inequality.

A. $n + 4 < 6$
 $\frac{-4 \quad -4}{\quad \quad}$
 $n < 2$

B. $3t + 3 \geq -12$
 $\frac{-3 \quad -3}{\quad \quad}$
 $\frac{3t \geq -15}{\quad \quad}$
 $\frac{t \geq -5}{\quad \quad}$

C. $2(3d + 1) > 20$
 $6d + 2 > 20$
 $\frac{-2 \quad -2}{\quad \quad}$
 $\frac{6d > 18}{\quad \quad}$
 $\frac{d > 3}{\quad \quad}$ 1

D. $\frac{2p}{2} \leq \frac{-8}{2}$

$p \leq -4$

E. $5k + 6 > 5(k + 1)$

$5k + 6 > 5k + 5$
 $-5k \quad -5k$

$6 > 5$
 all real #'s

6. Suppose your office gives you \$200 to buy binders. Small binders cost \$7 each. Large binders cost \$8 each. Write the inequality that describes how many of each kind of binder you can buy.

$s = \# \text{ small binders}$
 $l = \# \text{ large binders}$

$7s + 8l \leq 200$

LT#5: Solve and graph inequalities containing the word *and*.

LT#6: Solve and graph inequalities containing the word *or*.


7. Tiv is on a diet. She is supposed to eat at least 1500 but not more than 1800 calories per day. Before her last meal of the day, she had consumed 1150 calories. According to Tiv's diet plan, what number of calories may she consume at her last meal of the day?

$c = \# \text{ calories in last meal}$

$1500 < c + 1150 < 1800$
 $-1150 \quad -1150 \quad -1150$
 $350 < c < 650$

8. Solve and graph $15c - 4 \leq 12c + 5$ on the number line.

$-12c + 4 \quad -12c + 4$
 $3c \leq 9$
 $\frac{3c}{3} \leq \frac{9}{3}$
 $c \leq 3$



LT#7: Solve equations and inequalities involving absolute value.

Solve each equation or inequality.

9. $|4a - 2| = 10$

$4a - 2 = 10$ or $4a - 2 = -10$
 $+2 \quad +2 \quad +2 \quad +2$
 $4a = 12$ or $4a = -8$
 $\frac{4a}{4} = \frac{12}{4}$ or $\frac{4a}{4} = \frac{-8}{4}$
 $a = 3$ or $a = -2$

10. $|9 - 3g| \leq 12$

$-12 \leq 9 - 3g \leq 12$
 $-9 \quad -9 \quad -9$
 $-21 \leq -3g \leq 3$
 $\frac{-21}{-3} \leq \frac{-3g}{-3} \leq \frac{3}{-3}$
 $7 \geq g \geq -1$

11. $|x - 5| > 3$

$x - 5 > 3$ or $x - 5 < -3$
 $+5 \quad +5 \quad +5 \quad +5$
 $x > 8$ or $x < 2$

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Unit 5: Linear Functions

LT#1: Find slope.

1. Find the slope of each line.

A. The line containing points (3, -6) and (4, -5)

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{-6 - (-5)}{3 - 4} = \frac{-1}{-1} = \boxed{1}$$

B. The line described by the equation $12x + 5y = 9$

$$\begin{array}{r} -12x \\ \hline 5y = -12x + 9 \\ \hline \end{array}$$

$$y = -\frac{12}{5}x + \frac{9}{5}$$

$$m = -\frac{12}{5}$$

LT#2: Write linear equations using slope-intercept form.

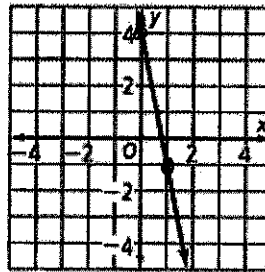
2. What is an equation of the graph at the right?

$$y = mx + b$$

$$y = -5x + 4$$

$$b = 4$$

$$m = -\frac{5}{1}$$



3. Find the y-intercept of the graph of each equation:

A. $7y - 3x = 4$

$$\frac{7y}{7} = \frac{3x + 4}{7}$$

$$y = \frac{3}{7}x + \frac{4}{7}$$

$$b = \frac{4}{7}$$

B. $2x + 4y = 3$

$$\frac{4y}{4} = \frac{-2x + 3}{4}$$

$$y = -\frac{1}{2}x + \frac{3}{4}$$

$$b = \frac{3}{4}$$

C. $17x + 2y = 42$

$$\frac{-17x}{-17} + \frac{2y}{-17} = \frac{-42}{-17}$$

$$y = -\frac{17}{2}x + 21$$

$$b = 21$$

4. A long-distance company charges \$26.95 per month plus \$0.14 per minute for all in-state long distance calls. Calculate the cost in dollars to make 225 minutes of in-state long distance calls over one month.

$$26.95 + 0.14(225) = \boxed{58.45}$$

5. What is the slope of the line with equation $4x + 3y = 8$?

$$\frac{-4x}{-4} + \frac{3y}{-4} = \frac{8}{-4}$$

$$\frac{3y}{3} = \frac{-4x + 8}{3}$$

$$y = -\frac{4}{3}x + \frac{8}{3}$$

$$m = -\frac{4}{3}$$

LT#3: Graph linear equations using intercepts.

6. Which of the following statements is NOT true for the graph of the equation $5x + 3y = 12$?

- A. The y-intercept is 4.
- B. The line has a positive slope.**
- C. The x-intercept is 2.4
- D. The line contains the point $(2, \frac{2}{3})$

$y=0$
 $5x = 12$
 $x = \frac{12}{5} = 2.4$

$-5x \quad -5x$
 $\frac{3y = -5x + 12}{3}$
 $y = -\frac{5}{3}x + 4$

7. Find the x-intercept of the graph of each equation. ($y=0$)

A. $3x + 2y = 7$

B. $2x + 3y = 7$

$\frac{3x = 7}{3} \quad x = \frac{7}{3}$
 $(\frac{7}{3}, 0)$

$\frac{2x = 7}{2} \quad x = \frac{7}{2}$
 $(\frac{7}{2}, 0)$

LT#4: Determine whether equations of parallel lines and perpendicular lines.

8. Find the slope of each line.

A. The line that is perpendicular to the graph $2x + 3y = 6$

$\frac{3y = -2x + 6}{3}$
 $y = -\frac{2}{3}x + 2$
 $m = \frac{3}{2}$

B. The line that is parallel to the graph of $-2x - 6y = 8$

$\frac{-6y = 2x + 8}{-6}$
 $y = -\frac{1}{3}x - \frac{4}{3}$
 $m = -\frac{1}{3}$

C. The line that is parallel to the graph of $y = \frac{1}{2}x + 7$

$m = \frac{1}{2}$

D. A line that is perpendicular to the graph of $y = -2x - 3$

$m = \frac{1}{2}$

9. Line A passes through points (6,8) and (1,-7). Line B is perpendicular to Line A. Line C is perpendicular to line B. What is the slope of Line C?

$m_A = \frac{8 - (-7)}{6 - 1} = \frac{15}{5} = 3$
 $m_B = -\frac{1}{3}$
 $m_C = 3$

10. Write an equation of the horizontal line through (5, -3).

HOY
 $y = -3$

11. Write an equation of the line with a y-intercept of -4 that is parallel to $6x - 2y = 13$.

$y = 3x - 4$

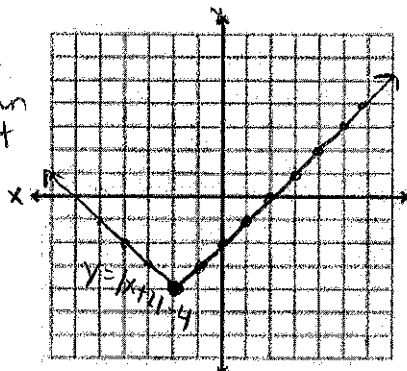
$\frac{6x - 2y = 13}{-2}$
 $y = 3x - \frac{13}{2}$
 $m = 3$

LT#5: Graph an absolute value function.

LT#6: Translate the graph of an absolute value function.

12. Graph: $y = |x + 2| - 4$

↓ left 2
 ↑ down 4



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Unit 6: Systems of Linear Equations & Inequalities

LT#1: Solve systems of equations by graphing.

1. What is true about the graphs of $y = -4x + 6$ and $y = \frac{1}{4}x + 6$?

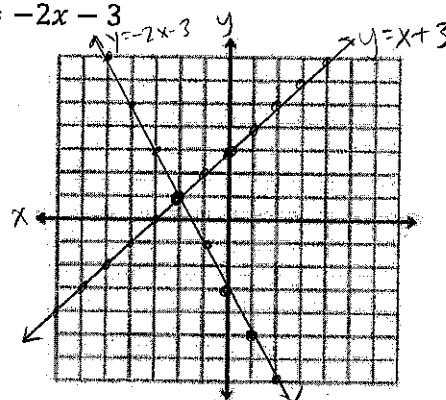
- A. They are parallel.
- B. They have the same slope.
- C. They are perpendicular.
- D. They do not intersect.

$m = -4$

$m = \frac{1}{4}$

2. Solve the following system of equations by graphing. $\begin{cases} y = x + 3 \\ y = -2x - 3 \end{cases}$

$(-2, 1)$



LT#2: Analyze special systems.

3. Find the number of solutions to each system.

A. $\begin{cases} 4x - y + 1 = 0 \\ 4x - y + 3 = 0 \end{cases}$

$0 + 0 - 2 = 0$

$-2 = 0$

no solution

B. $\begin{cases} 2x - y + 4 = 0 \\ 4x - 2y + 8 = 0 \end{cases}$

$4x - 2y + 8 = 0$

$-(4x - 2y + 8 = 0)$

$0 + 0 - 0 = 0$

$0 = 0$

infinitely many solutions

LT#3: Solve systems of equations using substitution.

LT#4: Solve systems by adding or subtracting to eliminate a variable.

4. Solve the system by elimination $\begin{cases} 234x + 65y = 219 \\ 1225x + 65y = -427 \end{cases}$

$-991x = 646$

$x = \frac{646}{-991}$

$234\left(\frac{646}{-991}\right) + 65y = 219$

$y = 5.715951254$

$\left(\frac{646}{-991} \mid 5.715951254\right)_1$

5. Solve the system by substitution $\begin{cases} 4x = 3y + 23 \\ 4y + 3x = -19 \end{cases}$ $x = 0.75y + 5.75$

$(1, 4, -5.8)$

$4y + 3(0.75y + 5.75) = -19$

$4y + 2.25y + 17.25 = -19$

$6.25y + 17.25 = -19$

$6.25y = -36.25$

$y = -5.8$

$4x = 3(-5.8) + 23$

$4x = -17.4 + 23$

$4x = 5.6$

$x = 1.4$

LT#5: Choose the best method for solving a system of linear equations.

6. A mail order company sells boxes of fishing lures for \$26.95 per box. A charge of \$8.95 is added to orders, regardless of the order size. Write an equation that models the relationship between the number of boxes ordered and the total cost of the order.

$b = \#$ of boxes ordered

$C =$ total cost

$C = 26.95b + 8.95$

7. Chelsea Piers Bowling Alley charges \$3 for the first game and \$0.50 for each additional game. Eastside Bowling Alley charges \$1 per game. How many games would you have to bowl to make Chelsea Piers the less expensive choice?

$g = 3 + 0.5(g-1)$

$g = 3 + 0.5g - 0.5$

$0.5g = 2.5$

$g = 5$

$g = \#$ game

$C =$ total cost

Chelsea Piers
 $C = 3 + 0.5(g-1)$

Eastside
 $C = 1g$

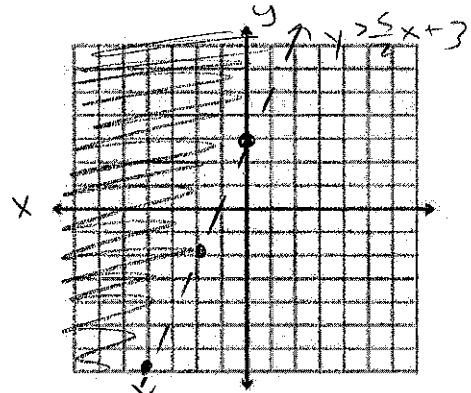
LT#6: Graph linear inequalities in two variables.

8. Graph $2y - 5x > 6$

$+5x +5x$

$\frac{2y}{2} > \frac{5x+6}{2}$

$y > \frac{5}{2}x + 3$



LT#8: Solve systems of linear inequalities by graphing.

9. Graph the system $\begin{cases} y > 4x - 2 \\ y > -3x + 5 \end{cases}$

