

Algebra 1CP Fall Final Exam

Can You...

- Write a verbal expression for an algebraic expression (1.1)
- Evaluate an expression, including variable substitution, using the correct order of operations (1.2)
- Find the solution of an equation using a replacement set (1.3)
- Use properties of math to combine like terms, simplify, and evaluate expressions (1.4-1.6)
- Identify a hypothesis and conclusion of a conditional statement (1.7)
- Name the sets of numbers to which a given number belongs (1.8)
- Draw a reasonable graph for a real-world situation (1.9)
- Solve linear equations in one variable, including multi-step problems and word problems (2.2-2.5)
- Translate verbal sentences into equations and equations into verbal sentences (2.1)
- Find equivalent fractions using proportions (2.6)
- Solve equations involving proportions (2.6)
- Solve percent change problems, including adding tax or applying discounts (2.7)
- Solve a problem for a specific variable (2.8)
- Solve weighted average problems (2.9)
- Identify the domain, range, and inverse of a relation (3.1)
- Express relations as tables, mappings, graphs, or ordered pairs (3.1)
- Identify relations as functions and write information in function notation (3.2)
- Use function notation to evaluate a function at a specific value (3.2)
- Determine if a given equation is linear and graph linear functions (3.3)
- Find the next few terms given an arithmetic sequence (3.4)
- Find the slope of a line passing through two points, as well as vertical and horizontal lines (4.1)
- Write an equation in slope-intercept form given two points or a point and a slope (4.2-4.5)
- Graph lines in slope-intercept form (4.3)
- Given a point and a slope, write linear equations in standard form or point-slope form (4.5)
- Use standard form to identify intercepts of a line (4.5)
- Identify a relation as having positive, negative, or no correlation (4.6)
- Determine if two lines are parallel or perpendicular (4.7)
- Write the slope-intercept form of an equation parallel to or perpendicular to a given line and through a point (4.7)
- Solve systems of equations using the properties of graphing, substitution, and linear combinations (5.1-5.4)
- Identify how many solutions a system of equations has and justify that answer (5.1-5.4)
- Determine the best way to solve a system of two equations (5.5)
- Solve real-world and word problem systems of equations (5.1-5.5)
- Solve inequalities in one variable, including variables on both sides of the inequality (6.1-6.3)
- Write, solve, and graph compound inequalities (6.4)
- Solve inequalities involving absolute values.

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- 1) Write an algebraic expression for the verbal expression: *Thirty-five less the product of four and x.*

- a) $35 + 4x$ c) $35 < 4 + x$
b) $35 < 4x$ d) $35 - 4x$

- 2) Write a verbal expression for the algebraic expression: 4^5

- a) 4 times 5 c) 4 divided by 5
b) 4 to the 5th power d) 5 to the 4th power

- 3) Evaluate the following expression if $a = 12$, $b = 5$, and $c = 4$: $3c + bc - 2a$

- a) 67 c) 8
b) 132 d) 64

- 4) Find the solution set for the inequality using the given replacement set:

$$x - 2 < 11; \{11, 12, 13, 14, 15\}$$

- a) $\{11, 12\}$ c) $\{11\}$
b) $\{12\}$ d) $\{11, 12, 13\}$

- 5) Name the property used in the equation. Then find the value of n : $11n = 11$

- a) Multiplicative Identity; 1
b) Multiplicative Identity; 0
c) Additive Identity; 1
d) Multiplicative Inverse; 1

- 6) Name the property used in the equation. Then find the value of n : $4(7n = 4)$

- a) Multiplicative Identity; $1/7$
b) Additive Inverse; $1/4$
c) Multiplicative Inverse; $1/4$
d) Substitution; $1/7$

- 7) Evaluate the expression and show each step:

$$5 + 5(33 - 5^2) + 3$$

$$5 + 5(33 - 5^2) + 3$$

$$\begin{aligned} \text{a) } &= 5 + 5(28) + 3 \\ &= 5 + 140 + 3 \\ &= 148 \end{aligned}$$

$$5 + 5(33 - 5^2) + 3$$

$$\begin{aligned} \text{b) } &= 10 + (33 - 25) + 3 \\ &= 10(8) + 3 \\ &= 83 \end{aligned}$$

$$5 + 5(33 - 5^2) + 3$$

$$= 5 + 5(33 - 25) + 3$$

$$\text{c) } = 5 + 5(8) + 3$$

$$= 10(11)$$

$$= 110$$

$$5 + 5(33 - 5^2) + 3$$

$$= 5 + 5(33 - 25) + 3$$

$$\text{d) } = 5 + 5(8) + 3$$

$$= 5 + 40 + 3$$

$$= 48$$

- 8) Evaluate the expression and show each step:

$$11 + 7(16 - 4^2) + 7$$

$$11 + 7(16 - 4^2) + 7$$

$$= 18(16 - 4^2) + 7$$

$$\text{a) } = 18(16 - 16) + 7$$

$$= 18(0) + 7$$

$$= 0 + 7$$

$$= 7$$

$$11 + 7(16 - 4^2) + 7$$

$$= 11 + 7(16 - 16) + 7$$

$$\text{b) } = 11 + 7(0) + 7$$

$$= 11 + 0 + 7$$

$$= 18$$

$$11 + 7(16 - 4^2) + 7$$

$$= 11 + 7(16 - 8) + 7$$

$$\text{c) } = 11 + 7(8) + 7$$

$$= 11 + 56 + 7$$

$$= 74$$

$$11 + 7(16 - 4^2) + 7$$

$$\text{d) } = 11 + 7(12) + 7$$

$$= 11 + 84 + 7$$

$$= 102$$

- 9) Simplify: $4(8n + 10d - 7d)$

a) $32n + 68d$

c) $44nd$

b) Simplified

d) $32n + 12d$

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10) Write an algebraic expression for the verbal expression: *Two times the square of x plus the difference of x squared and eight times x .*

- a) $2x^2 + (x^2 - 8x)$; Simplified
- b) $2x^2 + (x^2 - 8x)$; $2x^2 - 8x$
- c) $2x^2 + (x^2 - 8x)$; $11x^2$
- d) $2x^2 + (x^2 - 8x)$; $3x^2 - 8x$

11) Identify the hypothesis and conclusion of the statement. Then write the statement in if-then form: *David goes swimming when he finishes mowing the lawn.*

- a) H: He has finished mowing the lawn.
C: David is going swimming.
If he has finished mowing the lawn, then David is going swimming.
- b) H: David is going swimming.
C: He has finished mowing the lawn.
If David is going swimming, then he has finished mowing the lawn.
- c) H: David has finished all of his chores.
C: He is going swimming.
If David has finished all of his chores, then he is going swimming.
- d) H: He is going to play tennis.
C: He has finished mowing the lawn.
If he is going to play tennis, David finished mowing the lawn.

12) Identify the hypothesis and conclusion of the statement: *If $5x - 3 > 17$, then $x > 4$*

- a) H: $x > 4$
C: $5x - 3 > 17$
- b) H: $5x - 3 > 17$
C: $x < 4$
- c) H: $x = 4$
C: $5x - 3 > 17$
- d) H: $5x - 3 > 17$
C: $x > 4$

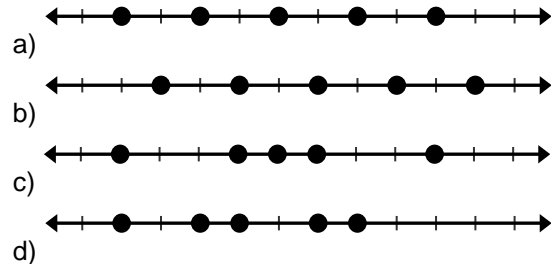
13) Name the set(s) to which the following number belongs: $\sqrt{34}$

- a) Real and irrational
- b) Real, rational, and integer
- c) Real, rational, integer, and whole
- d) Real and rational

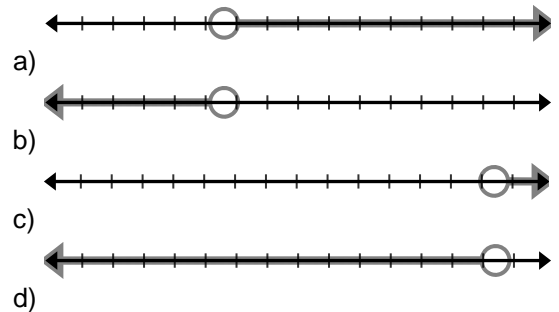
14) Name the set(s) to which the following number belongs: $\frac{-35}{7}$

- a) Real and irrational
- b) Real, rational, and integer
- c) Real, rational, integer, and whole
- d) Real and rational

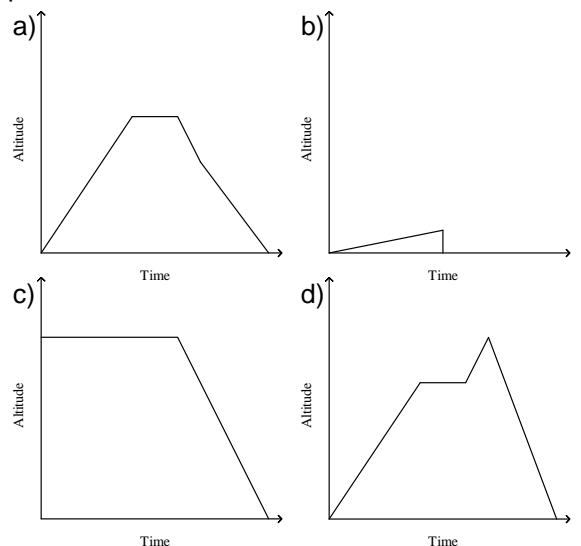
15) Graph on a number line: $\{-5, -3, -1, 1, 3\}$



16) Graph on a number line: $x > 4.4$

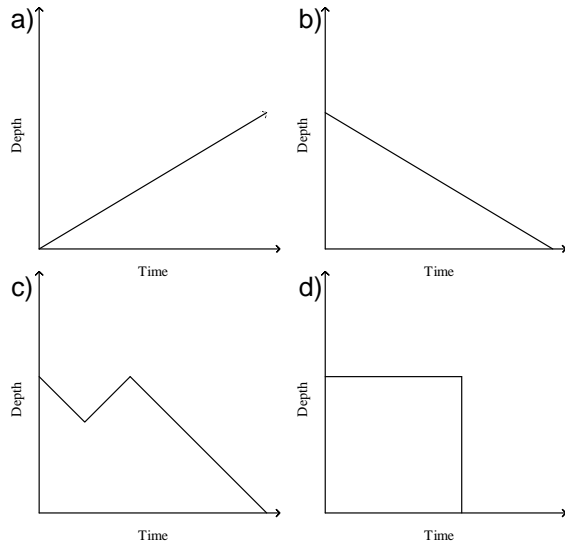


17) Identify the graph displaying the altitude of a skydiver as he is taken up in a plane and then jumps.



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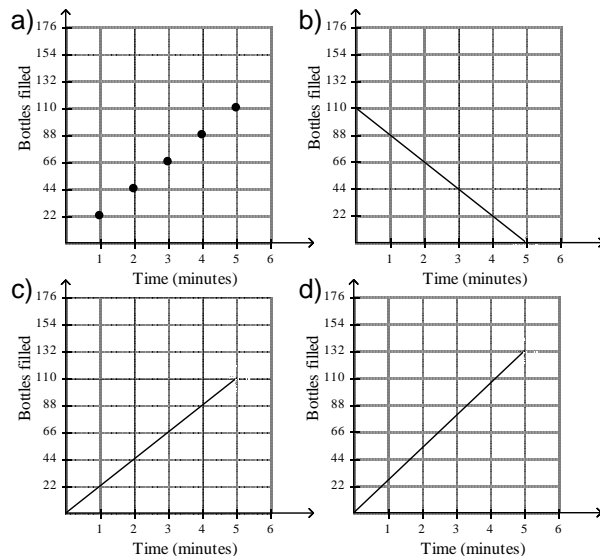
18) Identify the graph that displays the depth of water in a swimming pool after the drain is opened.



A soft drink bottle filling machine can fill 22 bottles per minute. The table shows the relationship between the number of minutes and the number of bottles filled.

Time (minutes)	1	2	3	4	5
Bottles filled	22	44	66	88	110

19) Draw a graph of the data in the soft drink table.



20) Translate the sentence into an equation: *Fourteen minus four times y is equal to y increased by four.*

- a) $14 - 4y = y - 4$ b) $4y - 14 = y + 4$
c) $(14 - 4)y = y + 4$ d) $14 - 4y = y + 4$

21) Solve: $119 = n - 66$

- a) 53 b) 186
c) -185 d) 185

22) Solve: $a - \frac{1}{2} = \frac{3}{5}$

- a) $-1\frac{1}{10}$ b) $1\frac{1}{10}$
c) $\frac{9}{16}$ d) $\frac{1}{10}$

23) Solve: $\frac{4}{5} + x = \frac{3}{7}$

- a) $\frac{13}{35}$ b) $-\frac{1}{2}$
c) $1\frac{8}{35}$ d) $-\frac{13}{35}$

24) Solve: $\frac{x}{90} = \frac{7}{9}$

- a) 35 b) 70
c) 140 d) 116

25) Solve: $\frac{5}{9}d = \frac{9}{10}$

- a) $\frac{31}{90}$ b) $1\frac{31}{50}$
c) $\frac{1}{2}$ d) $\frac{50}{81}$

26) Write an equation and solve: *Find three consecutive even integers with a sum of 48.*

- a) $x + (x + 2) + (x + 4) = 48$; 14, 16, 18
b) $x + (x + 2) + (x + 4) = 48$; 18, 20, 22
c) $x + (x + 2) + (x + 4) = 48$; 42, 44, 46
d) $x + (x + 1) + (x + 2) = 48$; 15, 16, 17

27) Solve: $-7m + 20 = -17m - 10$

- a) -3 b) 3
c) 1 d) $1\frac{1}{4}$

28) Solve: $\frac{4}{5}k - 5 = -7 + \frac{2}{5}k$

- a) -5 b) 5
c) $-1\frac{2}{3}$ d) -30

29) Solve: $\frac{1}{2}(15 + 7d) = -\frac{d}{4}$

- a) 3 b) 2
c) -4 d) -2

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30) Use cross products to determine which pair of ratios forms a proportion.

- a) $\frac{3.5}{3.9} = \frac{28}{35.1}$ b) $\frac{3.5}{3.9} = \frac{24.5}{27.3}$
 c) $\frac{3.5}{3.9} = \frac{28}{23.4}$ d) $\frac{3.5}{3.9} = \frac{21}{27.3}$

31) The original price of a video game was \$49.95. The price was dropped to \$45.50. What was the percent of decrease from the original price?

- a) About 9% b) About 10%
 c) About 91% d) About 102%

32) Find the discounted price of the item:

Radio: \$59.00 Discount: 20%

- a) \$70.80 b) \$47.20
 c) \$39.00 d) \$11.80

33) Solve the equation for the variable d : $df + 10h = 3$

- a) $d = \frac{3-10h}{f}$ b) $d = 3 - 10h$
 c) $d = \frac{3+10h}{f}$ d) $d = f(3 - 10h)$

34) The formula for the perimeter, P , of a rectangle is $P = 2l + 2w$, where l is length and w is width.

Solve the formula for w .

- a) $w = P - 2l$ b) $w = \frac{P-l}{2}$
 c) $w = \frac{P-2l}{2}$ d) $w = P - l$

Two trains leave Chicago at the same time, one traveling east and the other traveling west. The eastbound train travels at 50 miles per hour, and the westbound train travels at 40 miles per hour. Let t represent the amount of time since their departure.

35) Complete a table representing the situation.

a)

	r	t	$d = rt$
Eastbound Train	50	t	$50t$
Westbound Train	40	t	$40t$

b)

	r	t	$d = rt$
Eastbound Train	40	t	$40t$
Westbound Train	50	t	$50t$

c)

	r	t	$d = rt$
Eastbound Train	50	$t + 1$	$50(t + 1)$
Westbound Train	40	t	$40t$

d)

	r	t	$d = rt$
Eastbound Train	50	t	$50t$
Westbound Train	50	t	$50t$

The Nut House sells peanuts for \$6.75 per pound and cashews for \$9.50 per pound. On Saturday, they sold 32 pounds more peanuts than cashews. The total sales for both types of nuts was \$1,012.25. Let p represent the number of pounds of peanuts sold.

36) Complete a table representing the situation.

a)

	# of Pounds	Price per Pound	Total Price
Peanuts	p	\$6.75	$6.75p$
Cashews	$p - 32$	\$9.50	$9.50(p - 32)$

b)

	# of Pounds	Price per Pound	Total Price
Peanuts	p	\$9.50	$9.50p$
Cashews	$p - 32$	\$6.75	$6.75(p - 32)$

c)

	# of Pounds	Price per Pound	Total Price
Peanuts	p	\$6.75	$6.75p$
Cashews	$p - 32$	\$9.50	$9.50(p + 32)$

d)

	# of Pounds	Price per Pound	Total Price
Peanuts	p	\$9.50	$9.50p$
Cashews	$p - 32$	\$6.75	$6.75(p + 32)$

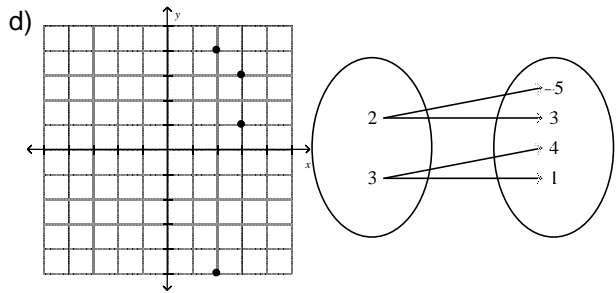
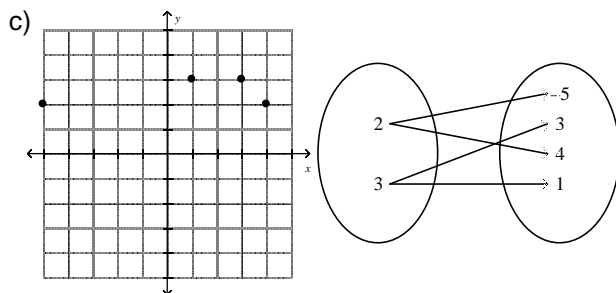
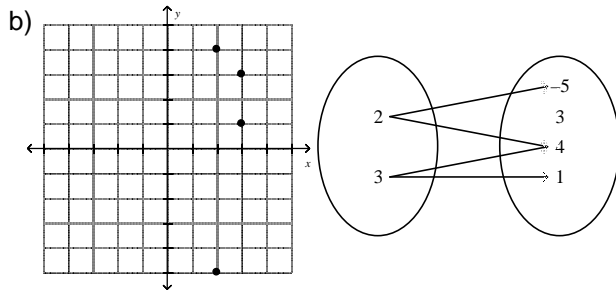
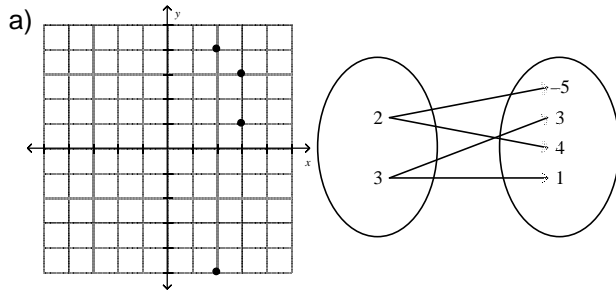
37) Write an equation to represent the problem.

- a) $6.75p + 9.50(p + 32) = 1012.25$
 b) $6.75p - 9.50(p - 32) = 1012.25$
 c) $9.50p + 6.75(p - 32) = 1012.25$
 d) $6.75p + 9.50(p - 32) = 1012.25$

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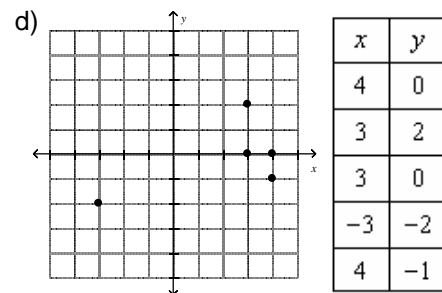
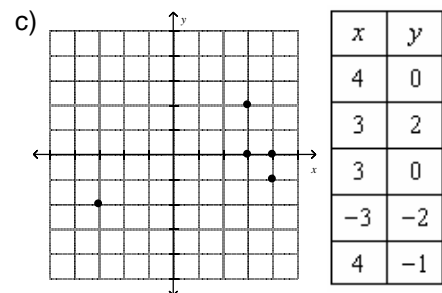
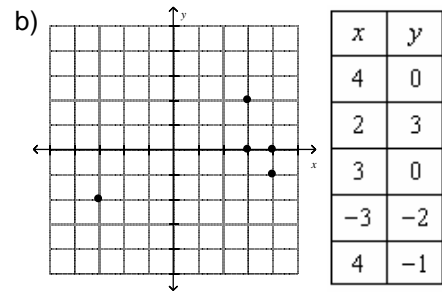
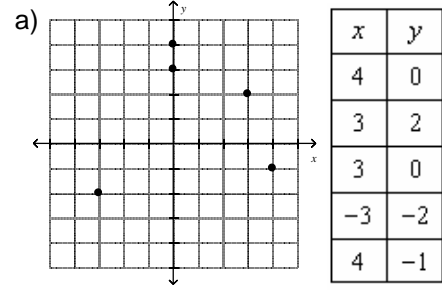
38) Express the relation as a graph and a mapping:

$$\{(3, 1), (2, -5), (2, 4), (3, 3)\}$$



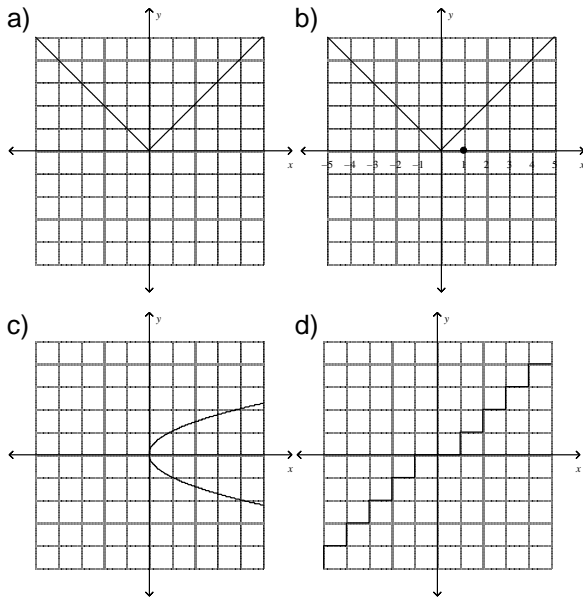
39) Express the relation as a graph and a mapping:

$$\{(4, 0), (3, 2), (3, 0), (-3, -2), (4, -1)\}$$



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40) Which relation is a function?



41) The table below shows the yearly sales of a CD player in a particular store.

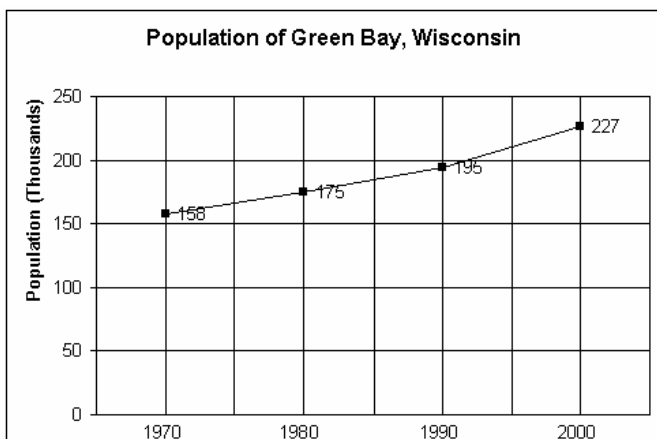
Year	1	2	3	4	5	6
Sales	55	100	145	190	235	280

Find an equation in function notation for the relation.

- a) $f(x) = 10x + 45$ b) $f(x) = 45x - 10$
 c) $f(x) = 45x + 10$ d) $f(x) = 55x - 10$

42) What is the slope of the line that passes through (a, b) and $(-a, b)$.

- a) 0 b) $\frac{b}{a}$
 c) $\frac{b}{2a}$ d) Undefined



43) For which 10-year period was the rate of change of the population of Green Bay the greatest?

- a) 1990 - 2000 b) 1970 - 1980
 c) 1980 - 1990 d) 1975 - 1985

44) For which 10-year period was the rate of change of the population of Green Bay the least?

- a) 1990 - 2000 b) 1970 - 1980
 c) 1980 - 1990 d) 1975 - 1985

45) Find the rate of change from 1970 to 1980.

- a) 17 thousand/yr b) 1.7 thousand/yr
 c) 2 thousand/yr d) 1.8 thousand /yr

46) Find the slope of the line passing through the points:

$(2, -3)$ and $(-5, 1)$

- a) $-\frac{4}{7}$ b) Undefined
 c) $-\frac{2}{3}$ d) $\frac{3}{7}$

47) Write a direct variation equation that relates x and y . Assume that y varies directly as x . Then solve.

If $y = -15$ when $x = -5$, find x when $y = 12$.

- a) $y = -3x$; -4 b) $y = 3x$; 3
 c) $y = 3x$; 4 d) $y = 2x$; 4

48) A television repair shop charges \$35 plus \$20 per hour. Write an equation in slope-intercept form to represent the situation.

- a) $C = 20 + 35h$ b) $h = 35 + 20C$
 c) $C = 25 + 30h$ d) $C = 35 + 20h$

49) The temperature is 38° and is expected to rise at 3° per hour. Write an equation in slope-intercept form to represent the situation.

- a) $T = 3 + 38h$ b) $T = 38 + 3h$
 c) $T = 38 - 3h$ d) $h = 38 + 3T$

50) Write an equation of the line that passes through each point with the given slope: $(0, 6)$; $m = -3$

- a) $y = 3x + 6$ b) $y = -3x + 6$
 c) $y = -3x - 5$ d) $y = -3x - 6$

51) Write an equation of the line passing through the points: $(-5, 8)$ and $(-3, -8)$

- a) $y = -8x + 22$ b) $y = -8x + 32$
 c) $y = 8x - 32$ d) $y = -8x - 32$

52) Write the following equation in standard form:

$$y + 6 = (x + 4)$$

- a) $x + y = -2$ b) $y = x - 2$
 c) $x - y = 2$ d) $x - y = 10$

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53) Write the following equation in standard form:

$$y + 3 = \frac{2}{5}(x + 9)$$

- a) $2x - 5y = 33$ b) $2x - 5y = -3$
c) $y = \frac{2}{5}x + \frac{3}{5}$ d) $2x + 5y = 3$

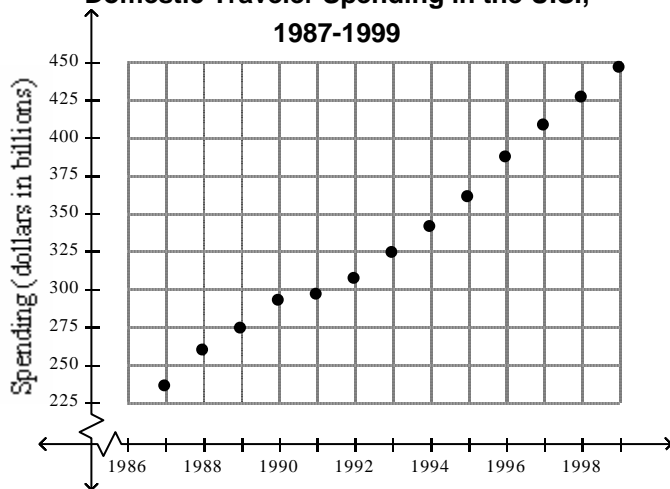
54) Write the following equation in slope-intercept form:

$$y + 3 = 3(x - 1)$$

- a) $y = -3x - 6$ b) $y = 3x - 6$
c) $y = 3x + 4$ d) $y = 3x + 6$

55) Determine whether the graph shows positive, negative, or no correlation and explain its meaning.

**Domestic Traveler Spending in the U.S.,
1987-1999**



- a) Positive correlation
As time passes, spending increases
b) No Correlation
c) Positive correlation
As time passes, spending decreases
d) negative correlation
As time passes, spending decreases

56) Solve the system: $y = x + 1$ and $8x - 4y = 0$

- a) (1, 2) b) (0, 1)
c) (2, 1) d) (-1, 0)

57) The sum of two numbers is 90. Their difference is 12. What are the numbers?

- a) No Solution b) 31 and 59
c) 35 and 47 d) 39 and 51

58) Jordan is 3 years less than twice the age of his cousin. If their ages total 48, how old is Jordan?

- a) 15 b) 12
c) 31 d) 17

59) Solve the system: $x = 2y - 1$ and $3x - 3y = 9$

- a) (7, 4) b) (3, 2)

- c) (4, 7) d) (-21, -10)

60) Solve the system: $-5x + 3y = -18$ and $2x + 2y = 4$

- a) (-1, 3) b) (1, 1)
c) (3, -1) d) (-3, 1)

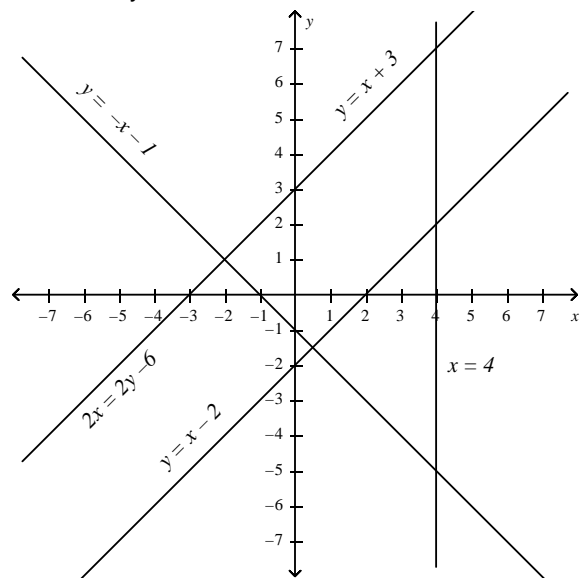
61) Solve the system: $3x - 2y = 4$ and $2x - 2y = -8$

- a) (12, 16) b) (2, 6)
c) (2, 1) d) (-2, -6)

62) Solve the system: $2x - 5y = -1$ and $3x - 11y = -2$

- a) (-1, -2) b) $(-8, -\frac{24}{5})$
c) (14, 4) d) (-1, 6)

Use the graph below to determine the number of solutions the system has.



- 63) $x = 4$
 $y = x + 3$
a) No Solution b) One Solution
c) Two Solutions d) Infinitely Many

- 64) $x = 4$
 $y = -x - 1$
a) No Solution b) One Solution
c) Two Solutions d) Infinitely Many

- 65) $2x = 2y - 6$
 $y = x + 3$
a) No Solution b) One Solution
c) Two Solutions d) Infinitely Many

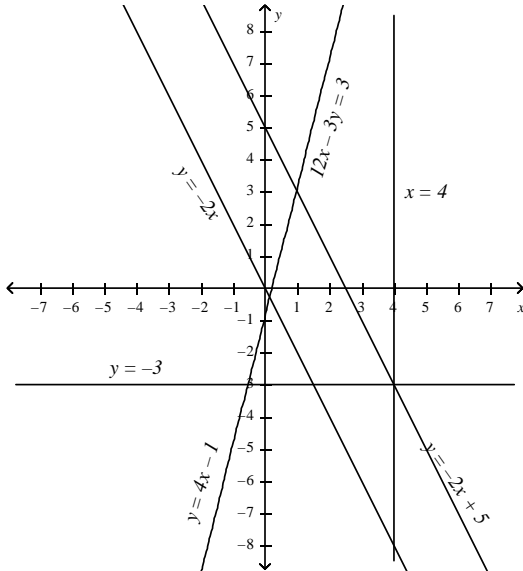
- 66) $2x = 2y - 6$
 $y = -x - 1$
a) No Solution b) One Solution
c) Two Solutions d) Infinitely Many

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67) $2x = 2y - 6$
 $y = x - 2$

- a) No Solution b) One Solution
c) Two Solutions d) Infinitely Many

Use the graph below to determine the number of solutions the system has.



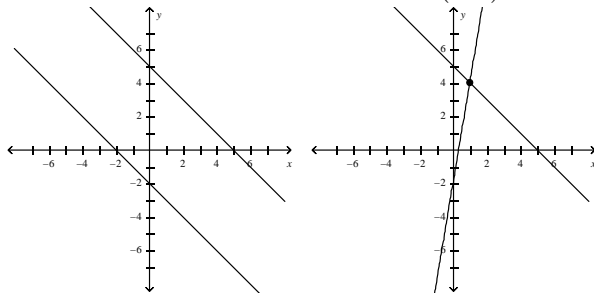
68) $y = 4x - 1$
 $y = -2x + 5$

- a) Infinitely Many b) Two Solutions
c) One Solution d) No Solution

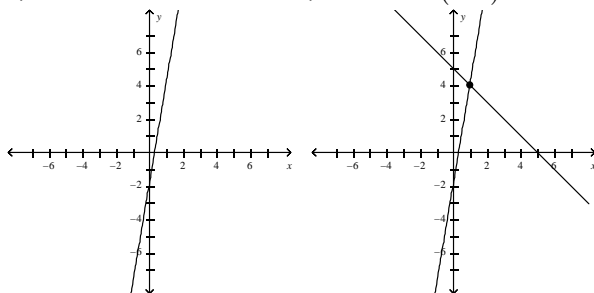
69) Graph the system of equations. Then determine whether the system has no solution, one solution, or infinitely many solutions. If the system has one solution, name it.

$y = -x + 5$
 $y = 6x - 2$

- a) No Solution b) One Sol: (4, 1)

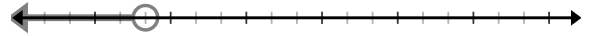


- c) Infinite Solutions d) One Sol: (1, 4)



70) Solve and graph: $k - 3 < 2$

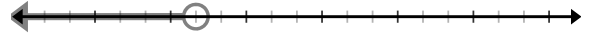
a) $k < -1$



b) $k > 5$



c) $k < 1$



d) $k < 5$



71) Solve and graph: $-2 \geq w - 6$

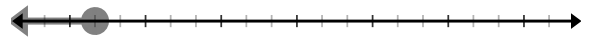
a) $4 \geq w$



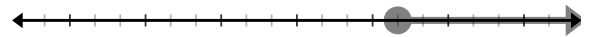
b) $8 \geq w$



c) $-8 \geq w$

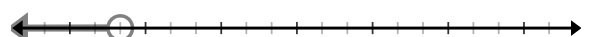


d) $4 \leq w$



72) Solve and graph: $y + 5 > -2$

a) $y < -7$



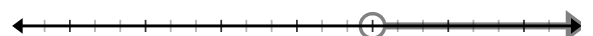
b) $y > -3$



c) $y > -7$



d) $y > 3$



73) Solve and graph: $1 \geq 1 + p$

a) $p \geq 0$



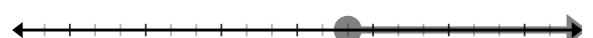
b) $p \leq 2$



c) $p \leq 0$



d) $p \geq 2$



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74) Solve: $\frac{-3b}{8} > -3$

- a) $b > -24$ b) $b > -\frac{8}{3}$
c) $b > 8$ d) $b < 8$

75) Solve: $-2f < 18$

- a) $f < 20$ b) $f > -36$
c) $f < -9$ d) $f > -9$

76) Solve: $3h+9 > 15$

- a) $h > -4$ b) $h > 2$
c) $h > 6$ d) $h < 2$

77) Solve: $\frac{2x-10+3x}{4} < -5$

- a) $x < -2$ b) $x > -2$
c) $x < 6$ d) $x < 4$





78) Solve: $5(2g-3)-6g \geq -2(g-6)+3$

- a) All Real Numbers b) $g \geq 1$
c) $g \geq 5$ d) No Solutions





79) Solve: $-5(3z+3) < -3(5z-4)$

- a) $z < 27$ b) All Real Numbers
c) $-30z < 27$ d) No Solutions


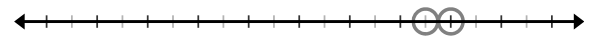
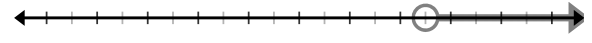
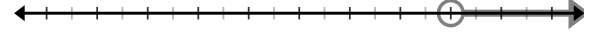
80) Solve and graph: $u+8 \geq 1$ and $u-3 < 3$

- a) $-7 \leq u < 6$

b) $0 \leq u < 9$

c) $-7 \leq u < 6$

d) $0 \leq u < 9$


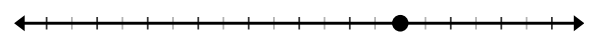
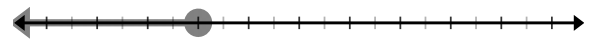


81) Solve and graph: $2k+5 > 1$ and $3k-9 \leq 6$

- a) $-2 < k \leq 5$

b) $-2 < k \leq 5$

c) $-1 < k \leq 3$

d) $-1 < k \leq 3$


82) Solve and graph: $g-6 > -1$ or $g+2 > 8$

- a) $g < 5$

b) $5 < g < 6$

c) $g > 5$

d) $g > 6$


83) Solve and graph: $0+v \leq -4$ or $-2v \leq 8$

- a) $v = -4$

b) $v \leq -4$

c) $v \geq -4$

d) All Real Numbers


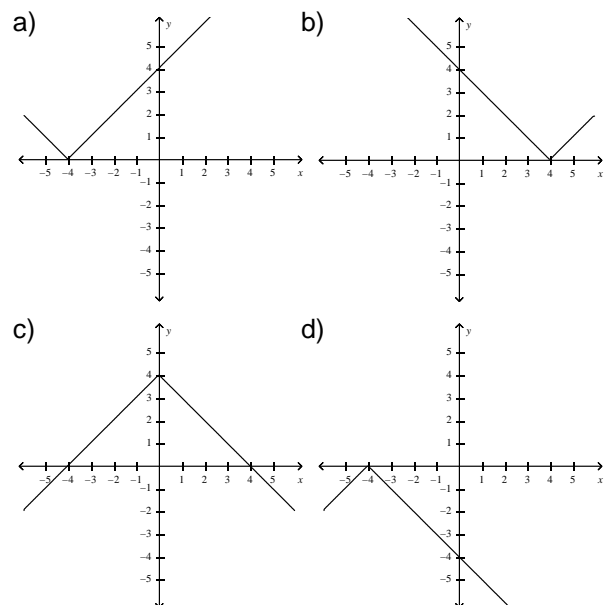
84) Solve: $|x-4| = 8$

- a) $x = 12$ b) $x = -4$
c) $x = -4$ or $x = 12$ d) $x = -12$ or $x = 4$

85) Solve: $|-2n-1| = 7$

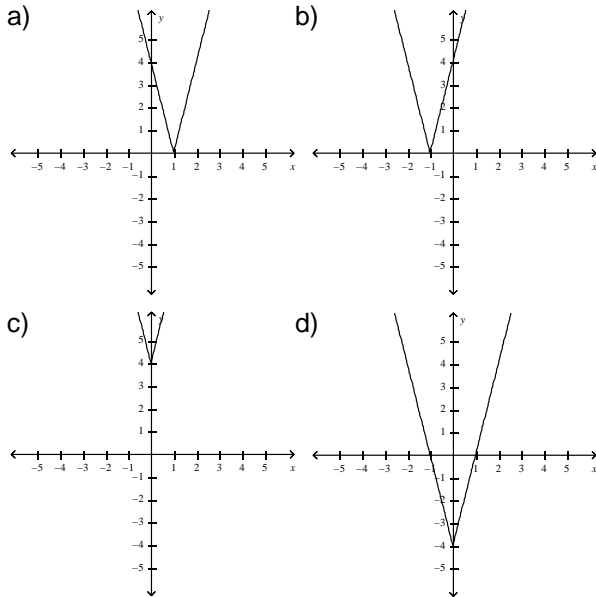
- a) $n = -4$ b) $n = -4$ or $n = -3$
c) $n = -4$ or $n = 3$ d) No Solutions

86) Graph: $f(x) = |x+4|$



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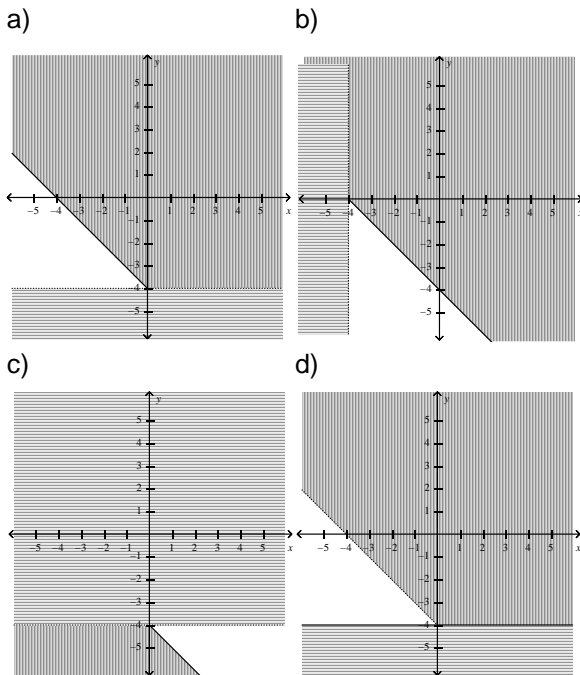
87) Graph: $f(x) = |4x + 4|$



88) Solve: $|d + 1| > 8$

- a) $d < -9$ b) $d > 7$
c) $-9 < d < 7$ d) $d < -9$ or $d > 7$

89) Solve by Graphing: $y \geq -x - 4$ and $y < -4$

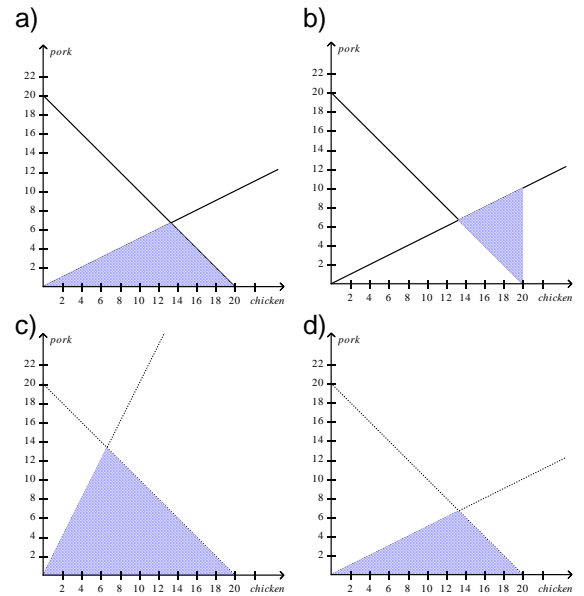


The Washington family is hosting a cookout. They decide to serve chicken and pork. They determine that they will need at most 20 pounds of meat, and they want to have at least twice as much chicken as pork.

90) Write a system of inequalities for this situation.

- a) $c + 2p \leq 20$ b) $c + p \leq 20$
 $c > 2p$ $2c > p$
c) $20 < c + p$ d) $c + p \leq 20$
 $2c > p$ $c \geq 2p$

91) Make a graph showing the amount of each type of meat that satisfies the requirements.



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ANSWERS

- | | |
|-------|-------|
| 1) D | 49) B |
| 2) B | 50) B |
| 3) C | 51) D |
| 4) A | 52) C |
| 5) A | 53) B |
| 6) A | 54) B |
| 7) D | 55) A |
| 8) B | 56) A |
| 9) D | 57) D |
| 10) D | 58) C |
| 11) A | 59) A |
| 12) D | 60) C |
| 13) A | 61) A |
| 14) B | 62) C |
| 15) A | 63) B |
| 16) C | 64) B |
| 17) A | 65) D |
| 18) B | 66) B |
| 19) C | 67) A |
| 20) D | 68) C |
| 21) D | 69) D |
| 22) B | 70) D |
| 23) D | 71) A |
| 24) B | 72) C |
| 25) B | 73) C |
| 26) A | 74) D |
| 27) A | 75) D |
| 28) A | 76) B |
| 29) D | 77) A |
| 30) B | 78) C |
| 31) A | 79) B |
| 32) B | 80) A |
| 33) A | 81) A |
| 34) C | 82) C |
| 35) A | 83) D |
| 36) A | 84) C |
| 37) D | 85) C |
| 38) A | 86) A |
| 39) C | 87) B |
| 40) A | 88) D |
| 41) C | 89) A |
| 42) A | 90) D |
| 43) A | 91) A |
| 44) B | |
| 45) A | |
| 46) A | |
| 47) C | |
| 48) D | |