

Contents

UNIT I

Part A Quiz (Form A)	5
Part A Quiz (Form B)	9
Part B Quiz (Form A)	13
Part B Quiz (Form B)	15
Part C Quiz (Form A)	17
Part C Quiz (Form B)	19
Part D Quiz (Form A)	21
Part D Quiz (Form B)	25
Part E Quiz (Form A)	29
Part E Quiz (Form B)	31
Part F Quiz (Form A)	33
Part F Quiz (Form B)	37
Unit I Test (Form A)	41
Unit I Test (Form B)	47

UNIT II

Part A Quiz (Form A)	53
Part A Quiz (Form B)	57
Part B Quiz (Form A)	61
Part B Quiz (Form B)	63
Part C Quiz (Form A)	65
Part C Quiz (Form B)	69
Unit II Test (Form A)	73
Unit II Test (Form B)	77

UNIT III

Part A Quiz (Form A)	83
Part A Quiz (Form B)	87
Part B Quiz (Form A)	91
Part B Quiz (Form B)	95
Part C Quiz (Form A)	97
Part C Quiz (Form B)	101
Part D Quiz (Form A)	105
Part D Quiz (Form B)	109
Unit III Test (Form A)	113
Unit III Test (Form B)	117

UNIT IV

Part A Quiz (Form A)	123
Part A Quiz (Form B)	127
Part B Quiz (Form A)	131
Part B Quiz (Form B)	137
Part C Quiz (Form A)	143
Part C Quiz (Form B)	147
Unit IV Test (Form A)	151
Unit IV Test (Form B)	155

UNIT V

Part A Quiz (Form A)	159
Part A Quiz (Form B)	161
Part B Quiz (Form A)	163
Part B Quiz (Form B)	167
Part C Quiz (Form A)	171
Part C Quiz (Form B)	173
Part D Quiz (Form A)	175
Part D Quiz (Form B)	177
Part E Quiz (Form A)	179
Part E Quiz (Form B)	181
Unit V Test (Form A)	183
Unit V Test (Form B)	189

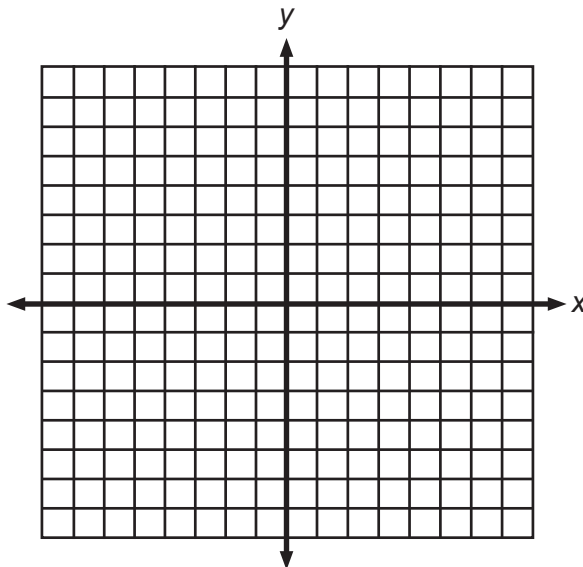
Final Exam (Form A)	195
Final Exam (Form B)	205

Unit I, Part A Quiz (Form A)

Name: _____ Date: _____ Score: _____ /59 pts.

1. Plot the following points on the Cartesian plane. (10 pts.)

- a. M (2, 4)
- b. R (3, -2)
- c. N (-2, -3)
- d. S (0, 6)
- e. O (-2, 2)
- f. T (-6, -2)
- g. P (6, 3)
- h. U (0, -6)
- i. Q (4, -6)
- j. V (0, 0)



2. List the points from the above list in each of the following quadrants. (7 pts.)

- a. Quadrant I _____
- b. Quadrant II _____
- c. Quadrant III _____
- d. Quadrant IV _____

3. Determine whether the given ordered pair is a solution of the given relation. (3 pts. each)

a. (11, 2) $2x - 7y = 8$

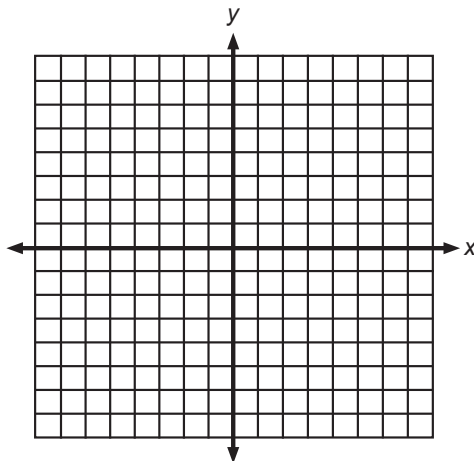
c. (1, 4) $3x - y = 1$

b. (3, -2) $2y - 8x \leq 8$

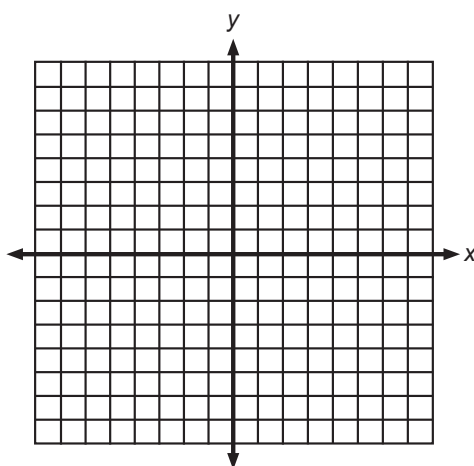
4. Graph the solution set for each of the following equations by finding individual solutions.

(5 pts. each)

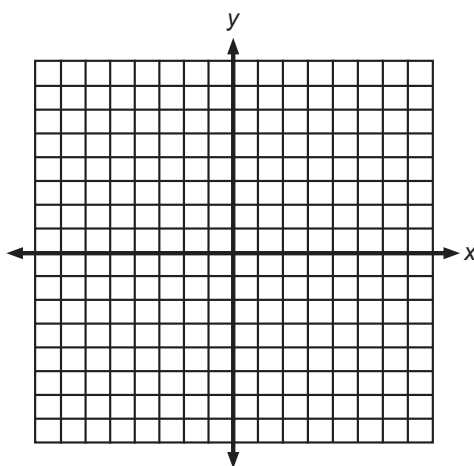
a. $y = -4x$



b. $y = 2x - 3$

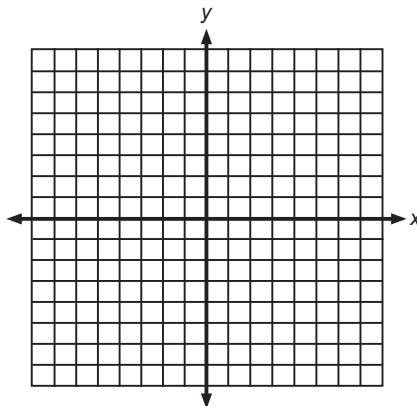


c. $y = -\frac{1}{4}x + 3$

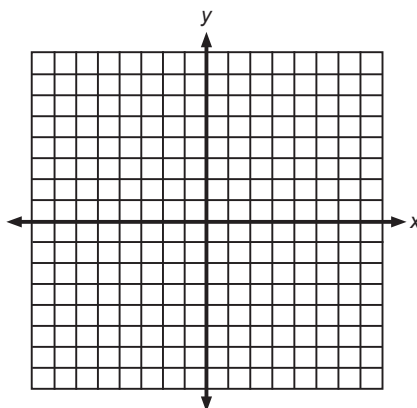


5. Graph the solution set for each of the following equations by transforming the equation into slope-intercept form and then using the y -intercept and slope. (5 pts. each)

a. $-3x + y = 2$

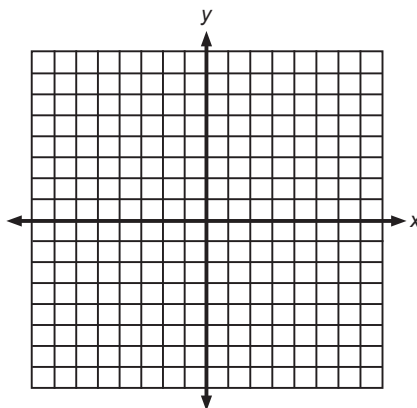


b. $8x - 4y = 12$

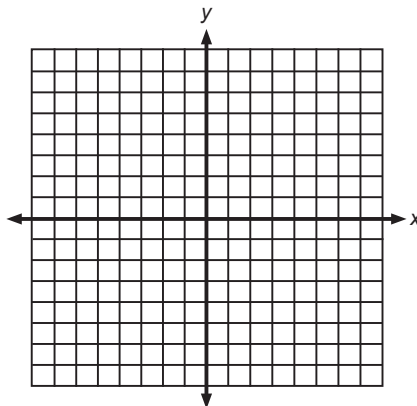


6. Graph the solution set for each of the following equations by finding the intercepts. (4 pts. each)

a. $3x + 9y = 18$



b. $x - 4y = 8$

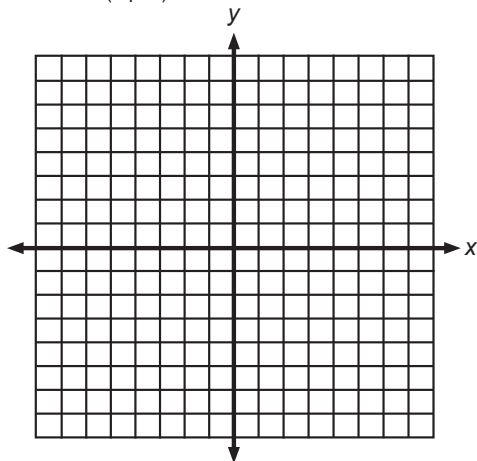


Unit I, Part B Quiz (Form A)

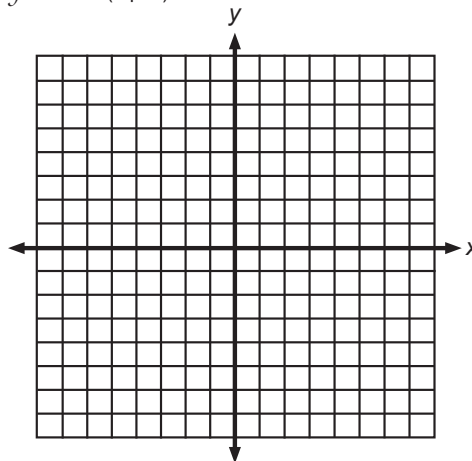
Name: _____ Date: _____ Score: _____ /20 pts.

Graph the solution set for the following.

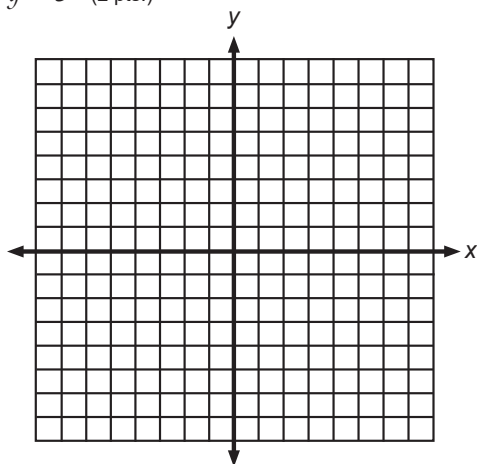
1. $x = -4$ (2 pts.)



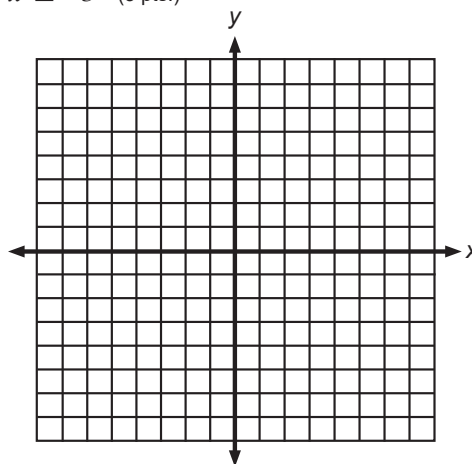
3. $y < -1$ (3 pts.)



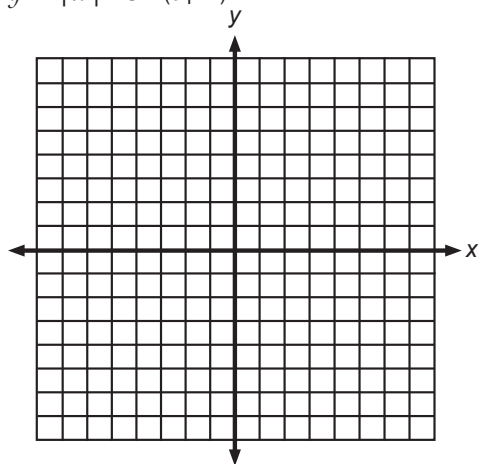
2. $y = 5$ (2 pts.)



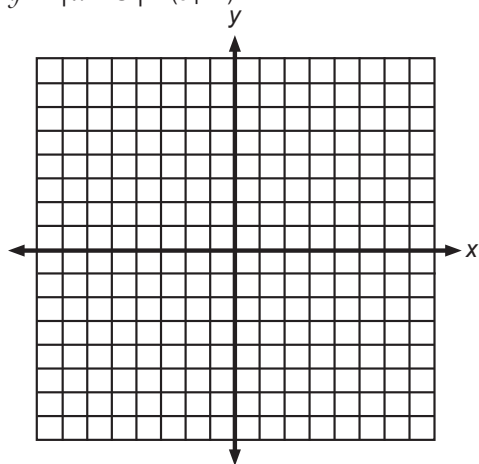
4. $x \geq -3$ (3 pts.)



5. $y = |x| - 3$ (5 pts.)



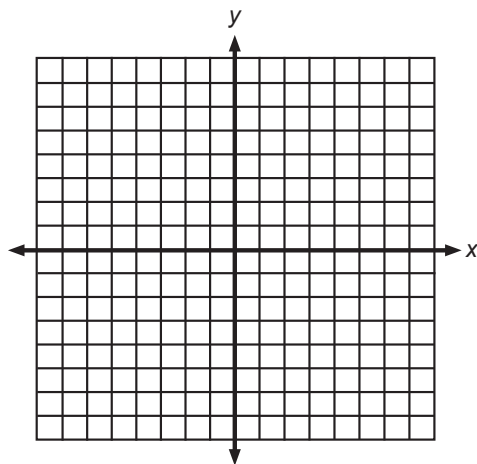
6. $y = |x - 3|$ (5 pts.)



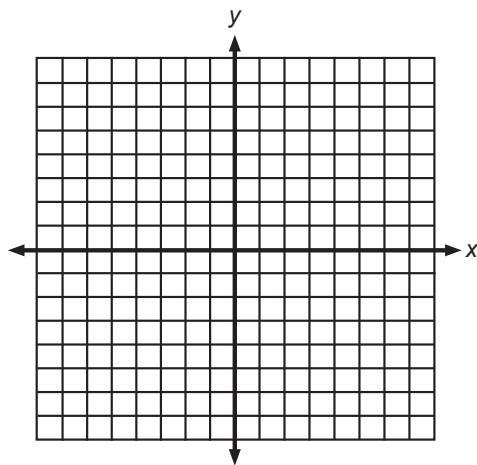
Unit I Test (Form B)

Name: _____ Date: _____ Score: _____ /83 pts.

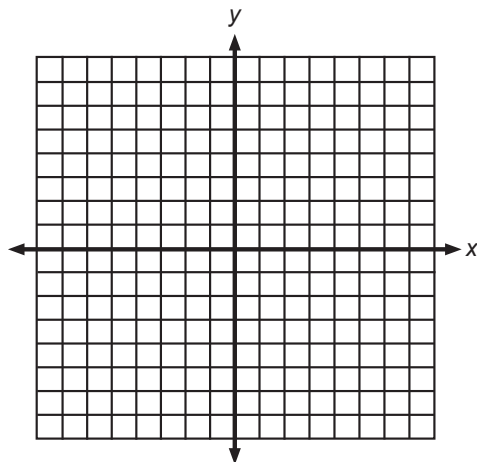
1. Graph the solution set for $2y - 5x = 10$. (4 pts.)



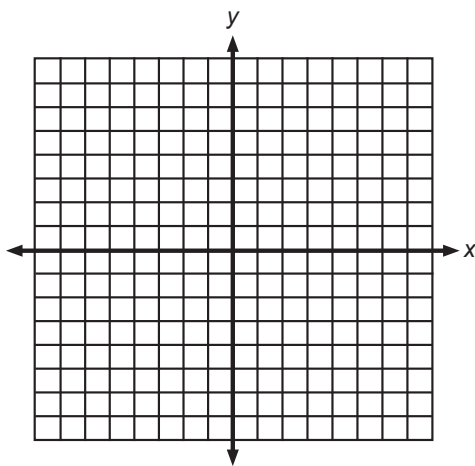
2. Graph the solution set for $3y = 15$. (4 pts.)



3. Graph the solution set for $y = |x| + 2$. (4 pts.)



4. Graph the solution set for $2x - y \leq 6$. (5 pts.)



5. Find the slope, if it exists, of the line containing the points $(-5, -1)$ and $(6, -2)$. (2 pts.)

6. Find the slope and y -intercept of the solution set for $4y + 2x = 16$. (4 pts.)

7. Find an equation for the solution set line containing the points $(3, -4)$ and $(-1, -3)$. (5 pts.)

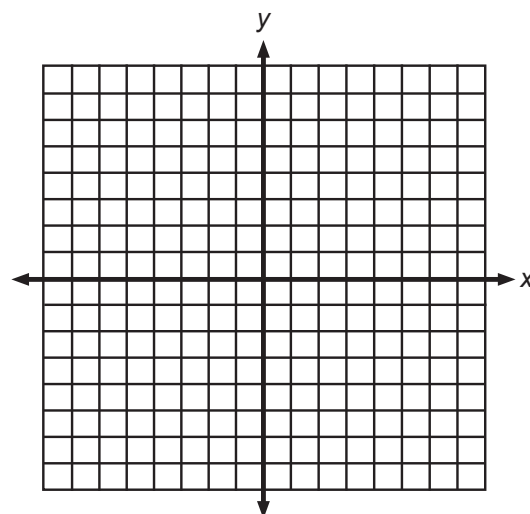
8. Find an equation for the solution set line that contains the point $(-4, 1)$ and that is parallel to the solution set line for $x + 2y = 3$. (5 pts.)

9. Find an equation for the solution set that contains the point $(2, -5)$ and that is perpendicular to the line $x - y = -2$. (5 pts.)

10. Solve the following systems by graphing. (5 pts. each)

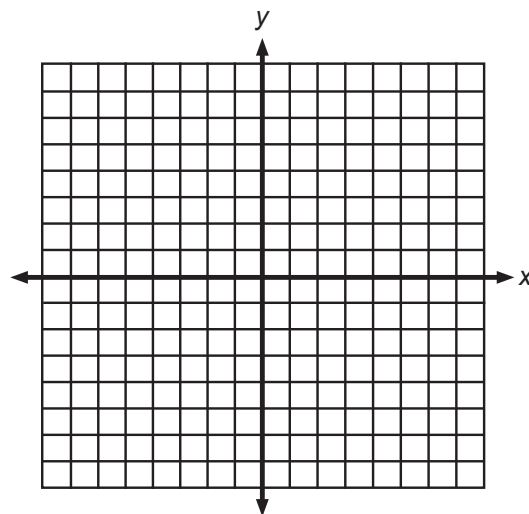
a. $2y - x = 12$

$x + 3y = 3$



b. $x + 3y \leq 6$

$x + y \leq 2$



11. Solve the following systems algebraically. (5 pts. each)

a. $3y + 2x = 7$

$x = 6y + 6$

b. $2x + y = -1$

$3y + 3x = -1$

Solve the following word problems using the four analysis questions. State your solution in a complete sentence with the proper units. (8 pts. each)

12. Two cars leave a restaurant and travel in opposite directions. One travels at a rate of seventy-five kilometers per hours (kph) and the other at ninety-eight kph. In how many hours will they be 692 km apart?
13. The perimeter of a rectangle is sixty-eight inches. The length is five inches less than twice the width. Find the dimensions of the rectangle.

Solve the following word problem. State your answer to part (c) in a complete sentence with the proper units. (9 pts.)

14. The cost of renting a truck is \$65 for two days. The same truck can be rented for five days for \$140.

a. List the data points (D, C) where D is the number of days and C is the cost in dollars. (2 pts.)

b. Fit a linear equation to the data points and express C in terms of D . (4 pts.)

c. Use your answer in part (b) to predict the cost to rent the truck for a week. (3 pts.)