Chapter 4, Practice Quiz 1

Lessons 4.1, 4.2, and 4.3

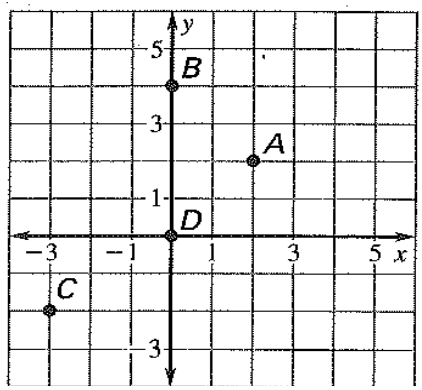
Name: _____

Date: _____ Hour: _____

Skills Assessed:

I can plot points in a coordinate plane.
I can draw a scatter plot and make predictions.
I can graph a linear equation using a table.
I can graph horizontal and vertical lines.
I can find the intercepts of a graph of a linear equation.
I can use intercepts to sketch a graph of an equation.

1) Write the ordered pairs for the points labeled *A*, *B*, *C, and D*



1)

A = _____

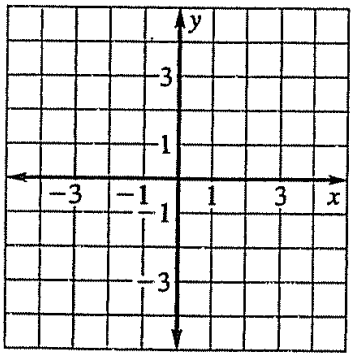
B = _____

C = _____

D = _____

2) Plot and label the ordered pairs: *S*(1,4), *U*(0,2), *N*(2,-5).

2)



3) The 1996 population, *P* (in millions), for seven states is shown in the table below. The number of U.S. representatives, *R*, for each state is given. Make a scatter plot of the data, with population on the horizontal axis.

3)

State	AK	OR	MN	NC	MI	IL	FL
Population, P (in millions)	0.6	3.2	4.7	7.3	9.6	11.8	14.4
Number of U.S. representatives, R	1	5	8	12	16	20	23

4) Describe the relationship between the population and the number of U.S. representatives in question 3.

4)

5) Check if the point is a solution to the equation. Show your work. Answer "yes" or "no."

$4y - 6x = 0$ (-3, -2)

5) _____

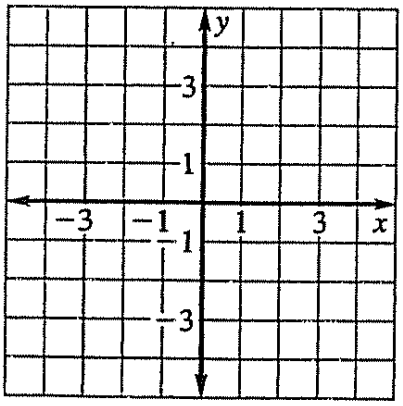
6) Re-write the equation in function form. Show your work

$-7x + 2y = 4$

6) _____

7) Create a table of values to graph the equation $y = 1 - 2x$.

7)



8) You earn \$12 an hour mowing lawns and \$8 an hour washing windows. You want to make \$600 in one week. An algebraic model for your earnings is $12x + 8y = 600$, where x is the number of hours you mow lawns and y is the number of hours you wash windows. If you spent 15 hours washing windows, how many hours did you have to mow lawns to make \$600 in one week? Show your work.

8) _____

9) Find the x- and y-intercepts of the graph of the equation.

$x + 2y = 5$

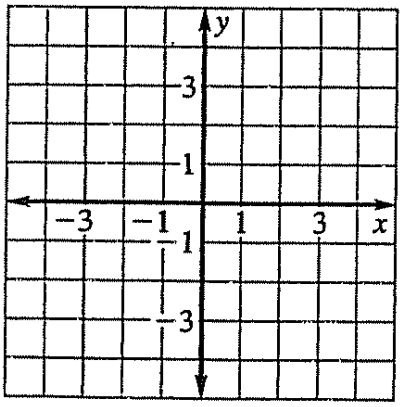
9) x-intercept_____

y-intercept_____

10) Graph the line that has the given intercepts:

x-intercept: 4
y-intercept: -1

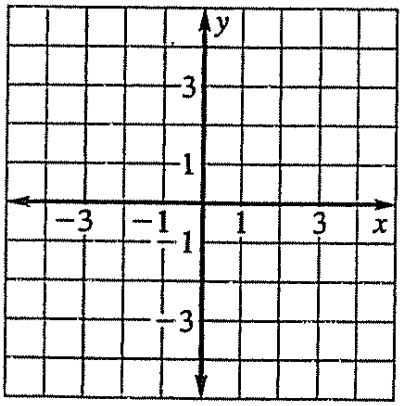
10)



11) Find the x- and y-intercepts of the graph of the equation. Show your work. Then graph the equation.

$y = 3 - x$

11)



12) You sold tickets to the school play. Advance tickets were $5.00 and tickets bought at the door were $6.00. Total ticket sales were $570. Let *x* represent the number of advance tickets and *y* represent the number of door tickets. Write an equation to represent the number of tickets sold. Sketch a graph of the equation.

12) Equation: _____