Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3rd Quarter Review

Algebra 1B

Determine whether the relation is a function. If the relation is a function, determine whether the function is linear or nonlinear. (2 points each)

1.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| x | 2 | 5 | 7 | 9 |
| y | 5 | 11 | 19 | 12 |

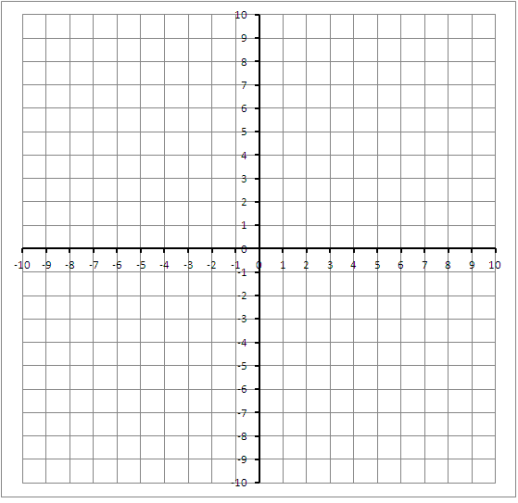
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Graph the equation and identify the intercepts. Find the slope. (5 points)

3.



*x*-intercept: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*y*-intercept: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

slope: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Evaluate. (3 points)

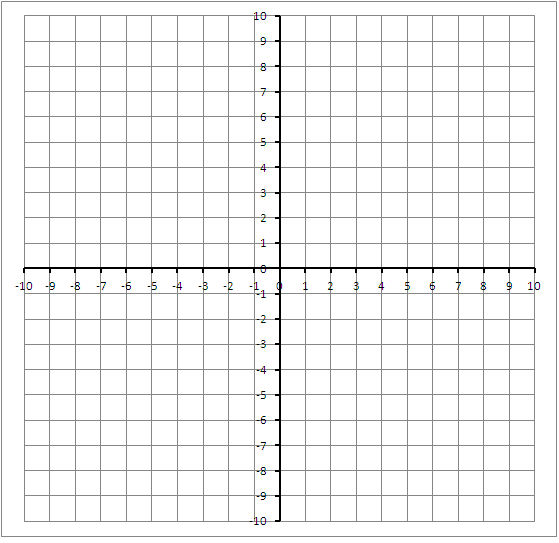
4. when *x* = -3, 0, and 5.

Find the value of *x* so that the function has the given value. (1 point)

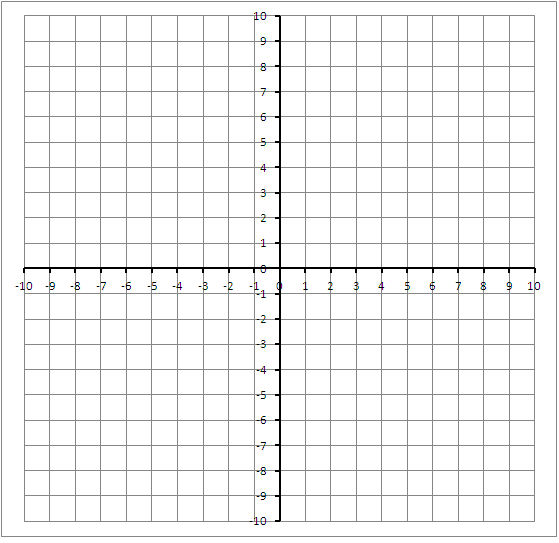
5.

Graph the Linear Equations. (2 points each)

6.

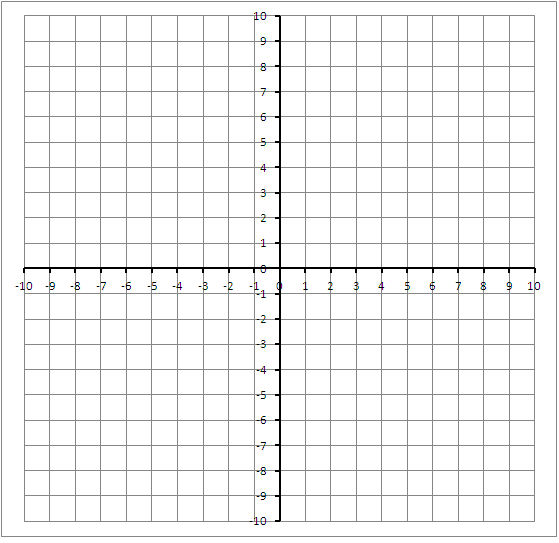


7.

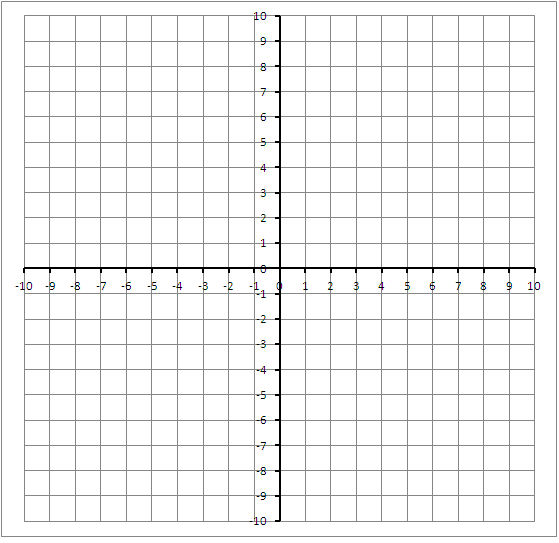


Graph the function. Compare the graph to the graph of |x|. Describe the Domain and Range. (5 points each)

8.



9.



Solve the inequality. Graph (number line) if possible. (3 points)

10.