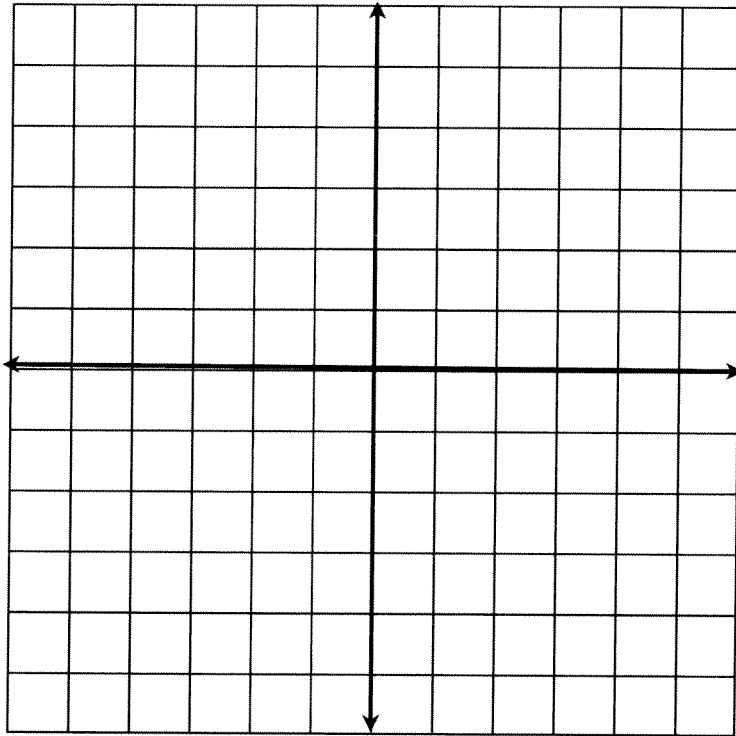


Name _____
Algebra Linear Systems Introduction

Period _____

1. Graph the line: $y = 2x + 1$ on the coordinate plane below.
Then, complete the table (below right) with five solutions.



x	y

2. Graph the line: $y = -x + 4$ on the coordinate plane above.
Then, complete the table (below right) with five solutions.

HINT: A slope of -1 means . . .

x	y



Check with your partner and make sure that your graphs are the same before continuing with the thinking questions!

Thinking Questions . . .

3. What do you notice about the lines graphed with numbers 1-2?

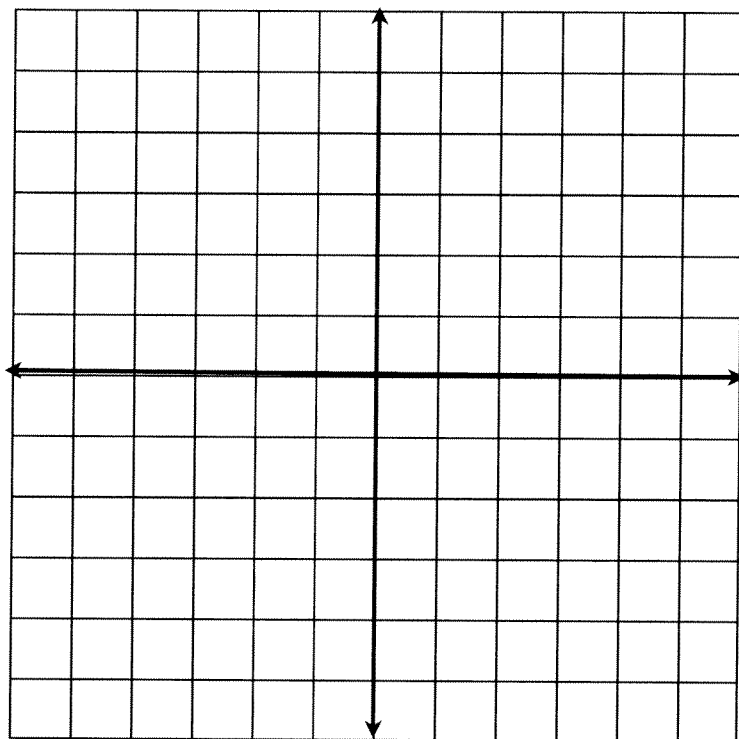
4. What do you notice about the two tables of values? Is there anything unique (in common) about the solution(s)?

5. What is significant about your answers from numbers 3 and 4?

The BIG *a-ha* from this is . . .

Linear Systems Introduction - Part B

6. Graph the line: $y = x + 3$ on the coordinate plane below.
Then, complete the table (below right) with five solutions.

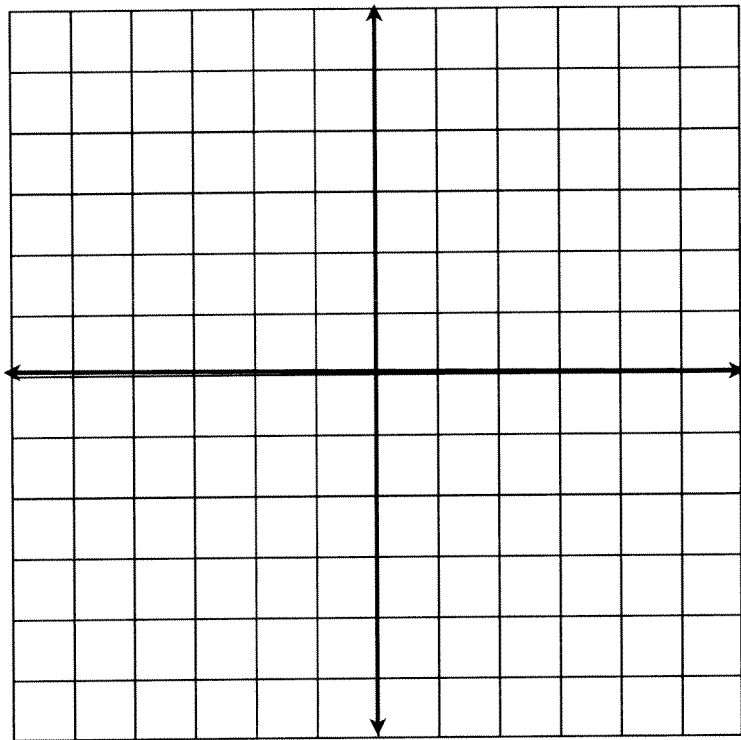


x	y

7. Graph the line: $y = x - 2$ on the coordinate plane above.
Then, complete the table (below right) with five solutions.

x	y

8. Graph the line: $y = -2x + 3$ on the coordinate plane below.
Then, complete the table (below right) with five solutions.



x	y

9. Graph the line: $y - 1 = -2(x - 1)$ on the coordinate plane above.
Then, complete the table (below right) with five solutions.

HINT: This can be graphed with point-slope form!

x	y



Check with your partner and make sure that your graphs are the same before continuing with the thinking questions!

Thinking Questions . . .

10. What do you notice about the lines graphed with numbers 6-7?

11. What do you notice about the two tables of values? What does that mean about the solution to the two equations? Why does that make sense with the results of the graph?

12. What do you notice about the lines graphed with numbers 8-9?

13. What do you notice about the two tables of values? What does that mean about the solution(s) to the two equations? Why does that make sense with the results of the graph?

The BIG *a-ha* from this is . . .

