

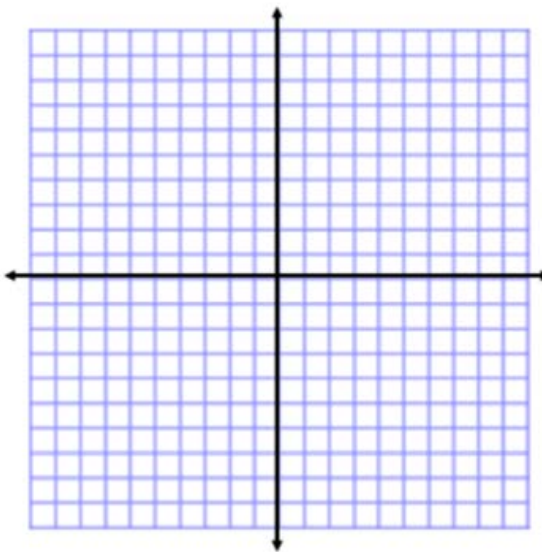
5.1 Plot Points on Coordinate Plane

ALGEBRA

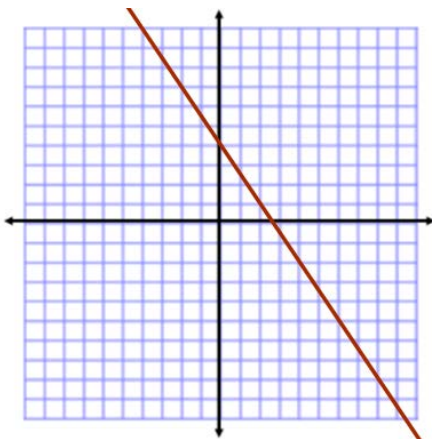
Write your questions here!



Cartesian Plane



Points on a Line

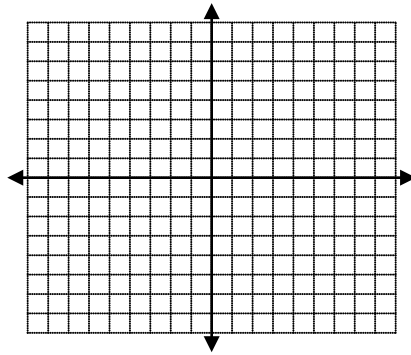


VERBAL: Sarah has 2 baseball cards. Each day she collects 3 more cards.

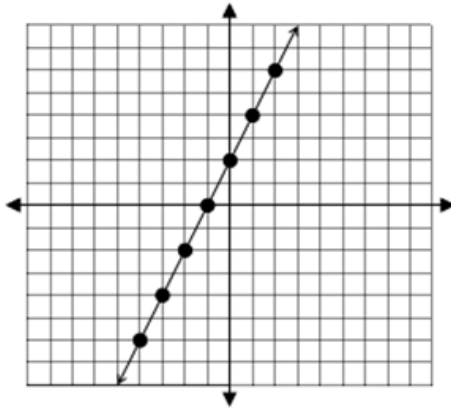
TABLE		EQUATION	GRAPH											
<table border="1"> <thead> <tr> <th>LABEL</th> <th>LABEL</th> </tr> <tr> <th>(unit)</th> <th>(unit)</th> </tr> </thead> <tbody> <tr> <td>0</td> <td></td> </tr> <tr> <td>1</td> <td></td> </tr> <tr> <td>2</td> <td></td> </tr> <tr> <td>3</td> <td></td> </tr> </tbody> </table>	LABEL	LABEL	(unit)	(unit)	0		1		2		3		$y =$ Initial Value = Rate of Change =	
LABEL	LABEL													
(unit)	(unit)													
0														
1														
2														
3														

Is the point (5, 8) a solution to

x	y
0	
1	
2	
3	
4	
5	



Fill in the table!



x	y
-3	
-2	
-1	
0	
1	
2	

Summarize your notes:

Now,
summarize
your notes
here!

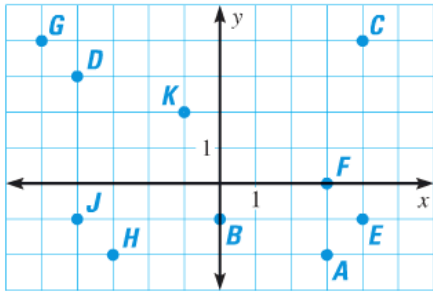


5.1 Plots on the Coordinate Plane

PRACTICE

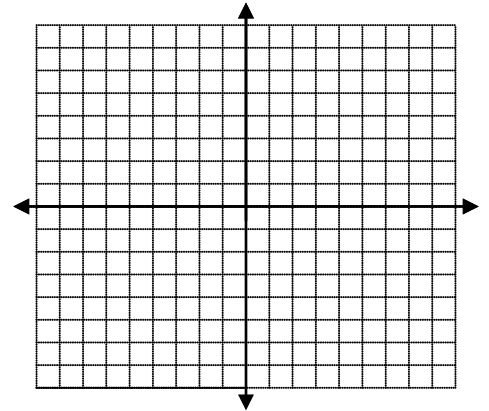
For 1-6, state the coordinates of the point.

- A (,)
- C (,)
- E (,)
- G (,)
- J (,)



For 6-9, plot the points in a coordinate plane. Describe the location of the point (what quadrant?)

- Q (-1, 5)
- S (0, 0)
- U (0, 6)
- W (3, -2.5)



10. Use the verbal statement below to complete the table, equation, and graph!

VERBAL: Bob has one dollar. Each week he makes 2 dollars for an allowance.

TABLE

LABEL (weeks)	LABEL (units)
0	
1	
2	
3	

EQUATION

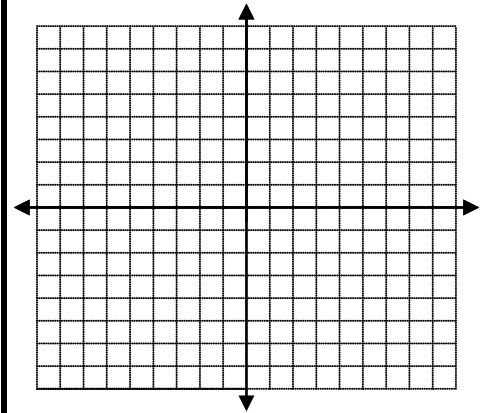
Write the rule.

$y =$

Initial Value =

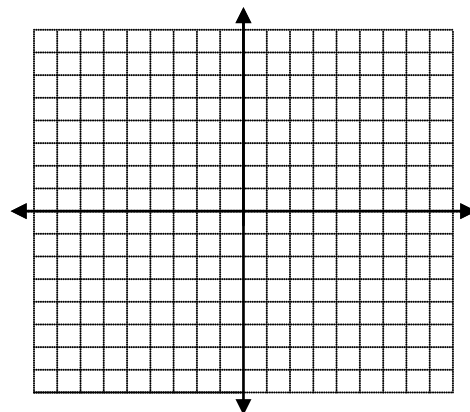
Rate of Change =

GRAPH

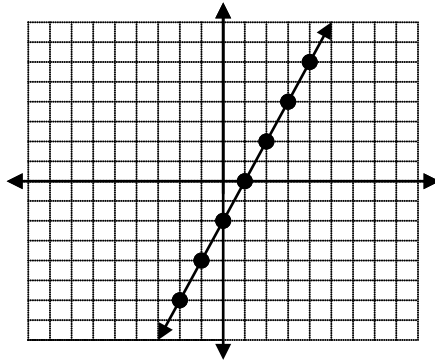


11. Given the table. Graph the line.

x	y
-1	8
0	4
1	0
2	-4
3	-8



12. Given the graph. Fill in the table.



x	y
-2	
-1	
0	
1	
2	
3	

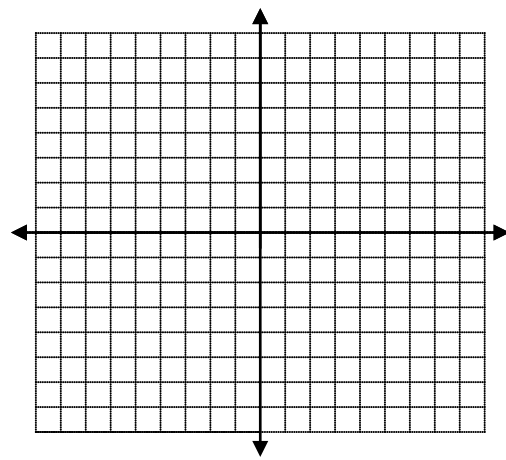
13. Given the equation. Fill in the table.

$$y = -3x + 6$$

x	y
-2	
-1	
0	
1	
2	
3	
20	

14. Given the equation. Make the graph.
(HINT: Make a table if you need it!)

$$y = x - 5$$



CHECKING SOLUTIONS Tell whether the ordered pair is a solution of the equation

15. $2y + x = 4$ $(-2, 3)$

16. $x = 9$ $(9, 6)$

17. $7x - 4y = 1$ $(-3, -5)$

18. **ERROR ANALYSIS** Describe and correct the error in determining whether $(8, 11)$ is a solution of $y - x = -3$

$$y - x = -3$$

$$8 - 11 = -3$$

$$-3 = -3$$

$(8, 11)$ is a solution.



19. **MULTIPLE CHOICE** Which ordered pair is a solution of $6x + 3y = 18$?

A. (-2, -10)

B. (-2, 10)

C. (2, 10)

D. (10, -2)

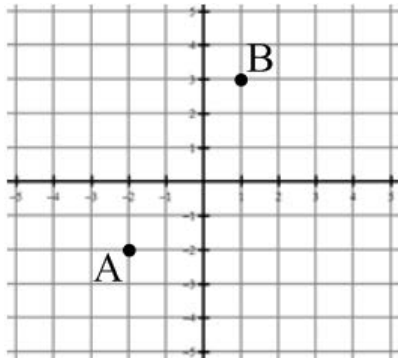
SKILLZ REVIEW

GRAPH

1. Describe how to move from point A to point B.

_____ units in the y direction (rise)

_____ units in the x direction (run)



2. Describe how to move from point C(0,3) to point D(2, -3).

SIMPLIFY

3. $4(x - 3) + 5$

4. $8x - 3(x - 3)$

SOLVE

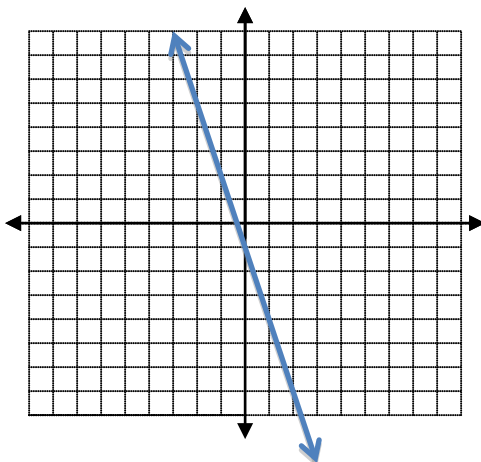
5. $7 - 4x = 17$

6. $3x + 5 = 10x + 6$

5.1 Plots on the Coordinate Plane

APPLICATION

1. Use the graph to fill in the table.



x	y
-2	
-1	
0	
1	
2	

2. Is $(\frac{5}{2}, -6)$ a solution to $y = 4x - 4$? Show work!

Hewey, Dewey, and Lewey are saving money for the new iPad. Help them keep track of their budget by filling in the blanks!

HEWEY

VERBAL

Hewey currently has no money saved and decides to save \$3 each day.

Initial value =

Rate of change =

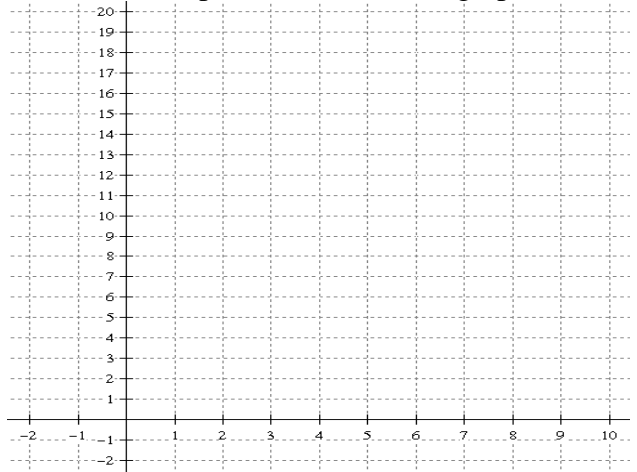
Equation $y =$

NUMERIC

LABEL (days)	Amount Saved (unit)
0	
1	
2	
3	
37	
	100

GRAPHIC

Plot the points and label the graph.



DEWEY

VERBAL

Dewey currently has _____ and saves _____

Initial value =

Rate of change =

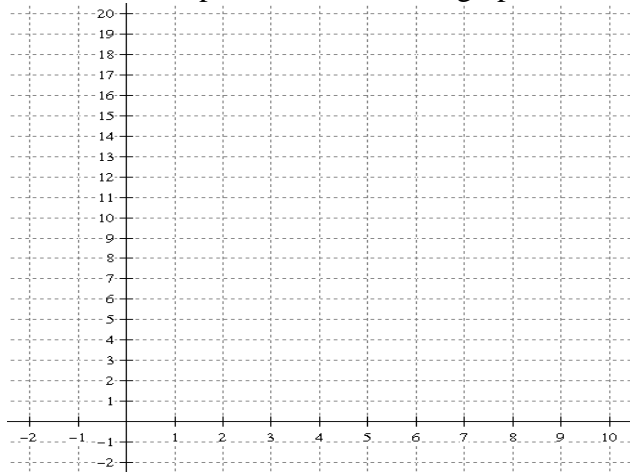
Equation $y =$

NUMERIC

Time (days)	Amount Saved (\$)
0	5
1	6
2	7
3	8
37	
	100

GRAPHIC

Plot the points and label the graph.



LEWEY

VERBAL

Lewey currently has _____ and saves _____

Initial value =

Rate of change =

Equation $y =$

NUMERIC

Time (days)	Amount Saved (\$)
0	
1	
2	
3	
37	
	100

GRAPHIC

