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

1. A (3 , -2)
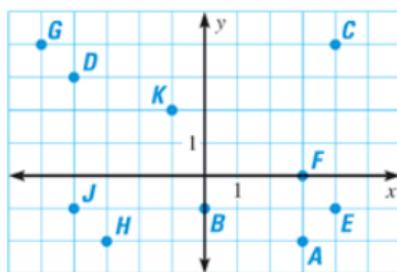
2. C (4 , 4)

3. E (4 , -1)

4. G (-5 , 4)

5. J (-4 , -1)

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

6. Q (-1, 5) II
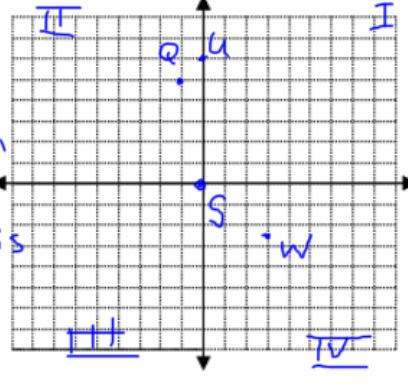
7. S (0, 0) origin

8. U (0, 6) y-axis

9. W (3, -2.5) IV

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		EQUATION	GRAPH

TABLE

TIME (weeks)	MONEY (dollars)
0	1
1	3
2	5
3	7

EQUATION

Write the rule.

$y = 1 + 2x$ or
$y = 2x + 1$

Initial Value = 1

Rate of Change = 2

GRAPH
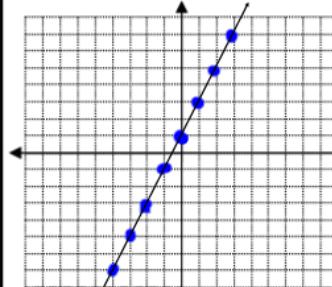
11. Given the table. Graph the line.

x	y
-1	8
0	4
1	0
2	-4
3	-8
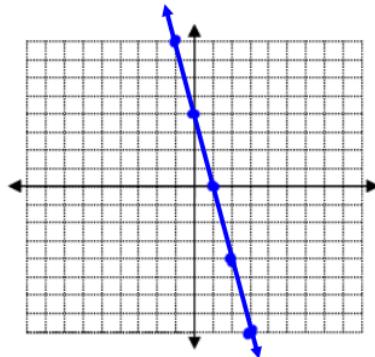
12. Given the graph. Fill in the table.
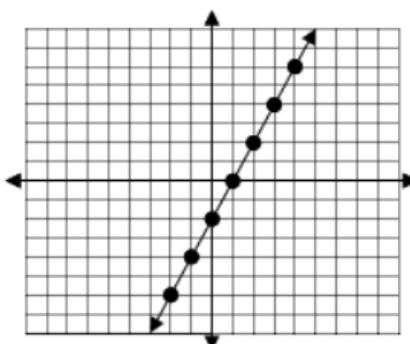
x	y
-2	-6
-1	-4
0	-2
1	0
2	2
3	4

13. Given the equation. Fill in the table.

$y = -3x + 6$

x	y
-2	12
-1	9
0	6
1	3
2	0
3	-3
20	-54

$\rightarrow y = -3(-2) + 6 = 12$

$\rightarrow y = -3(20) + 6 = -54$

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

$y = x - 5$
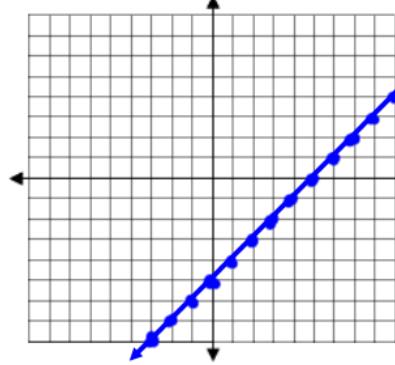
x	y
0	-5
1	-4
2	-3
3	-2
4	-1

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

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

$2(3) + -2 = 4$

$6 - 2 = 4$

$4 = 4$

YES!

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

$9 = 9$

YES!

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

$7(-3) - 4(-5) = 1$

$-21 + 20 = 1$

$-1 = 1$

NO!

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

(x, y)

They put 8 in for y when really it is x
They put 11 in for x when really it is y

$y - x = -3$
$8 - 11 = -3$
$-3 = -3$

$11 - 9 = -3$
$3 = -3$, NO!
$(8, 11)$ is a solution.

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

B

A. $(-2, -10)$

$6(-2) + 3(-10) = 18$
$-12 - 30 = 18$
$-42 = 18$
NO

B. $(-2, 10)$

$6(-2) + 3(10) = 18$
$-12 + 30 = 18$
$18 = 18$
YES!

C. $(2, 10)$

$6(2) + 3(10) = 18$
$12 + 30 = 18$
$42 = 18$
NO

D. $(10, -2)$

$6(10) + 3(-2) = 18$
$60 - 6 = 18$
$54 = 18$
NO

SKILLZ REVIEW

GRAPH

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

   _5_ units in the y direction (rise)

   _3_ units in the x direction (run)

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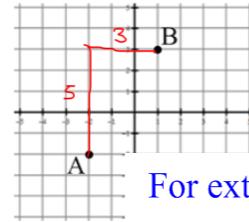
SIMPLIFY

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

   $4x - 12 + 5$

   $4x - 7$

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

SOLVE

5. $7 - 4x = 17$
   -2 -7

   $-4x = 10$
   -4 -4

   $x = -\frac{10}{4} = -\frac{5}{2}$

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

For extra help, check the Skillz Review video!