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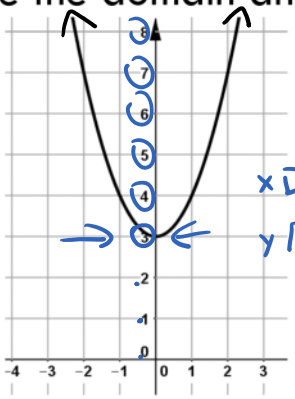
DAILY QUEST:

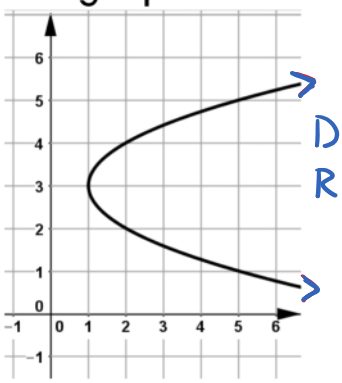
State the domain and range for each graph.

1)



xD: All real #'s
yR: $y \geq 3$

2)



D: $x \geq 1$
R: All real #'s

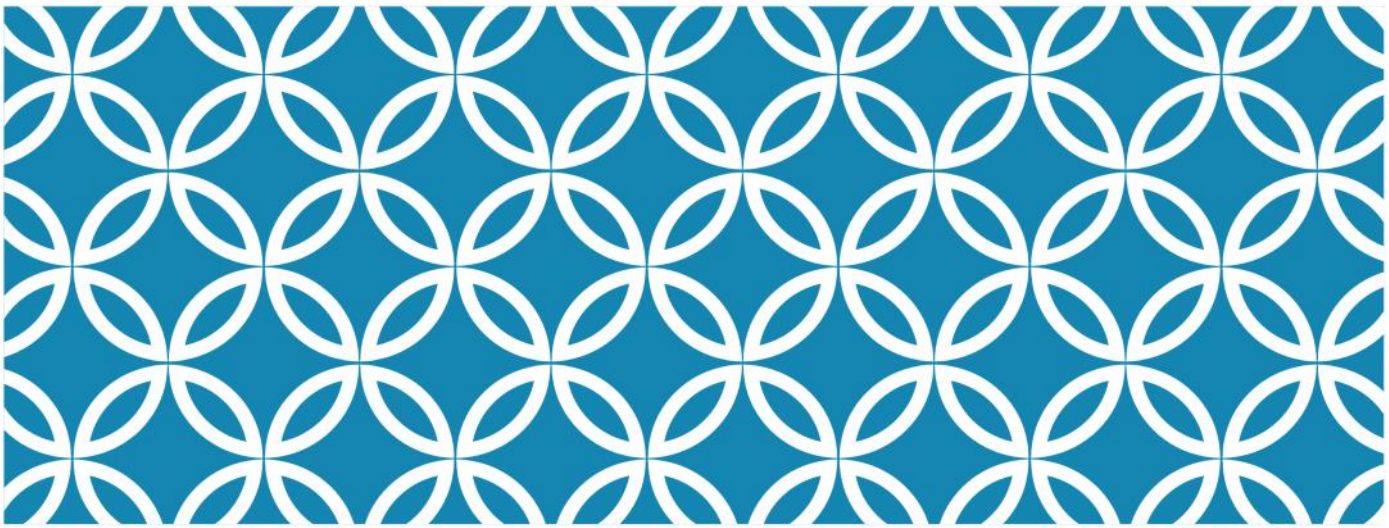
3) Solve for x given the $f(x) = g(x)$; $f(x) = 7x + 1$; $g(x) = 3x - 7$

$f(x) = 7x + 1$ $g(x) = 3x - 7$

$f(x) = 7(-2) + 1$
$-14 + 1$
-13

$(-2, -13)$

$7x + 1 = 3x - 7$
$-3x \quad -3x$
$4x + 1 = -7$
$-1 \quad -1$
$4x = -8$
$x = -2$



LESSON 6.1

2. GRAPHING LINEAR FUNCTIONS(TABLE)

3. Domain

Goal: To find, graph, identify key features of linear functions mathematically and in real world context.

Obj: SWBAT graph linear functions.

Obj: SWBAT stay the domain of the function.

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PROBLEM 1:

~~Graph~~ each line.

$x + y = 4$

+ ? =4

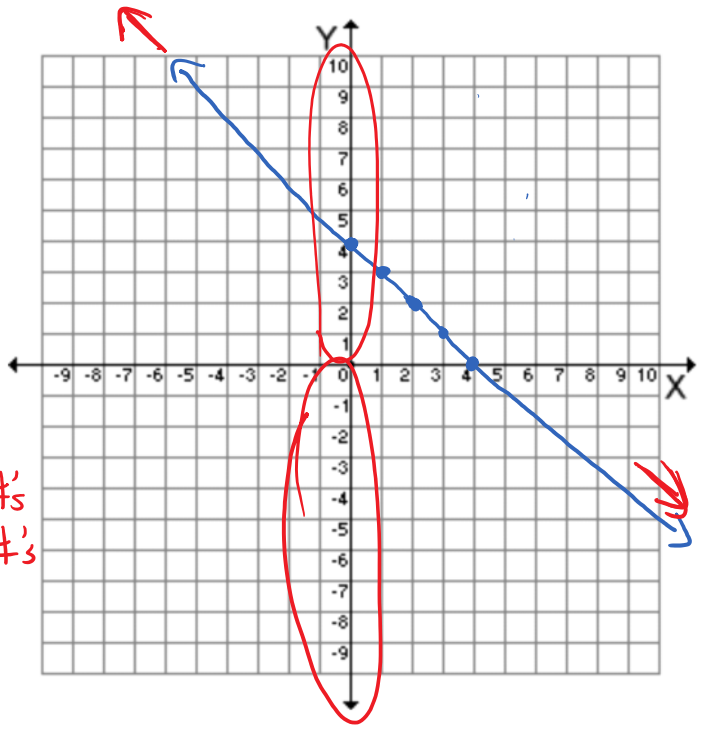
X	Y
0	4
1	3
2	2
3	1
4	0

Is the line a functions?

function

Domain: All real #'s

Range: All real #'s



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PROBLEM 1A:

Graph each line.

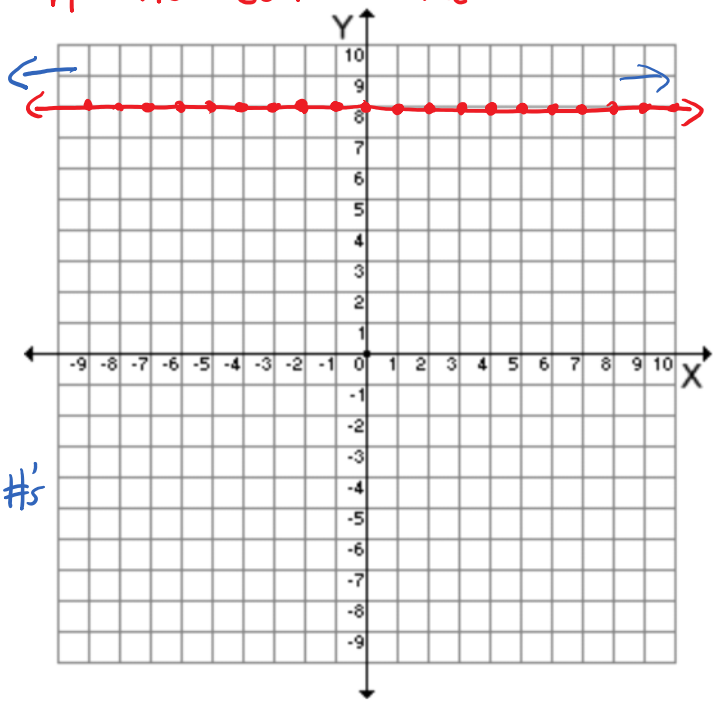
$y = 8 \rightarrow 0x + y = 8$

$0 + y = 8$

$y = \#$ Horizontal line

X	Y
0	8
1	8
2	8
3	8
4	8

100 8



Is the line a functions? function

Domain: All real #'s

Range: {8}

PROBLEM 1B:

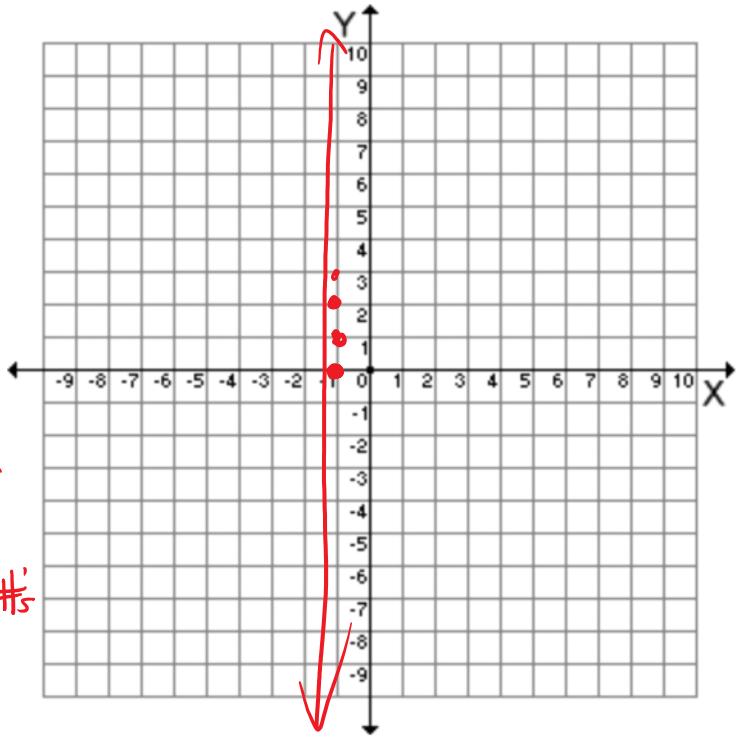
x = # Vertical line

Graph each line.

$x = -1 \rightarrow x + 0y = -1$

x + 0 = -1

X	Y
-1	0
-1	1
-1	2
-1	3
-1	4



Is the line a functions?

Not a function

Domain: {-1}

Range: All real #'s

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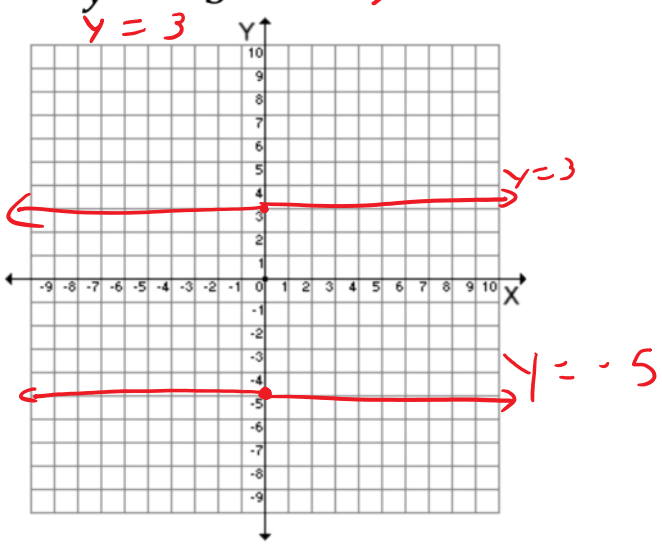
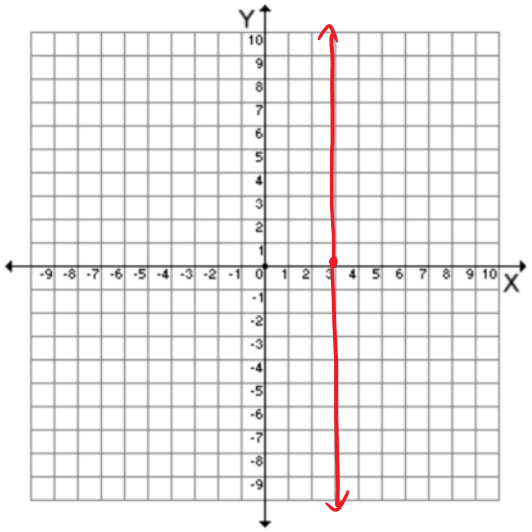
PROBLEM 1C:

Graph each line.

$y = -5$



$x = 3$

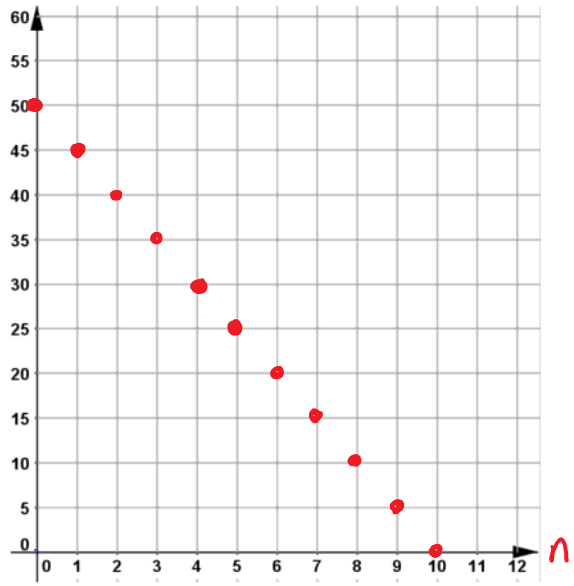


PROBLEM 2:

Billy receives a $50 gift card to use at a Chucky Cheese (*where a kid can be a kid*). It costs him $5 per visit to play all the games. A function relating the value of the gift card, $v(n)$, to the number of visits, n, is $v(n) = 50 - 5n$.

Graph the situation and state the domain for Billy Chucky Cheese [redacted].

v(n) = $



# of visits

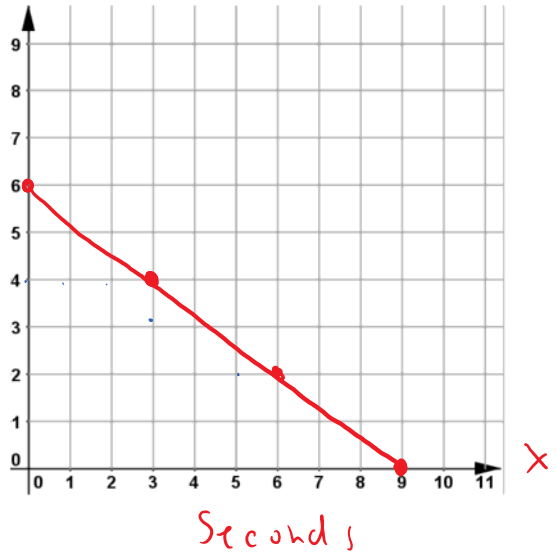
Domain: {0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10}

Don't connect the points b/c you can't have a .5 of a visit.

PROBLEM 2A:

A squirrel fell off the top of a 6 foot tree. The squirrel's descent was 2 feet per 3 seconds. Let $f(x)$ represent the height in feet and let x represent seconds. The function $f(x) = -\frac{2}{3}x + 6$ represent the squirrel's fall.

f(x) = ft



Graph the function and state the domain for the squirrel's fall (which may or may not be dead....#RIPsquirrel #sorrynotsorry)

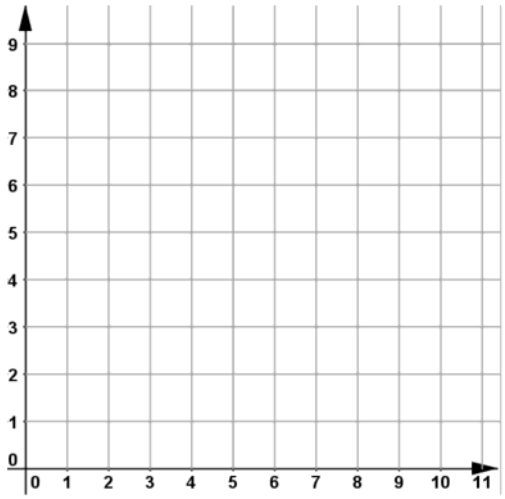
Domain: $0 \leq x \leq 9$

Time = Connect points.

PROBLEM 2B:

Sandy-Sue is going to spend \$12 at the store. Kit-Kat Bars cost \$2 each and Hershey Bars cost \$3 each. The function $2x + 3y = 12$ represents Sandy-Sue's shopping trip. Let x represent number of Kit-Kat Bars and y represent number of Hershey Bars.

Graph the function and state the domain.



PROBLEM 2C:

Grandpa Jim goes for a walk. He travels at a rate of two feet per one minute. The function $f(x) = 2x$ represents Grandpa Jim's walk. Let $f(x)$ represent the distance he walks and x represents the minutes.

Graph the function and state the domain.

Domain: $x \geq 0$

Time = connect points