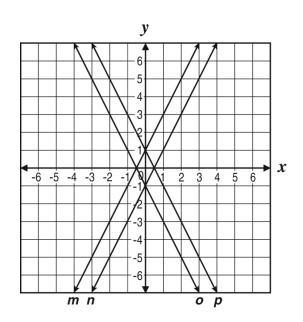
Name: Class: Date:

Question #1

Lines m, n, o, and p are graphed on the coordinate grid below. A table of values for one of the lines, represented by the equation y = 2x + 1, is also provided.



X	У
0	1
1	3
-1	-1
2	5
-2	-3

Which line BEST represents the equation y = 2x + 1?

- A) m
- B) *n*
- C) o
- D) *p*

A machine can make 54 paper bags in 2 minutes. If the machine makes the bags at a constant rate, which table below shows the number of bags it can make over a 5-minute period?

A)

Number ofMinutes	Numberof Bags
1	27
2	54
3	81
4	108
5	135

B)

Number ofMinutes	Numberof Bags
1	54
2	81
3	108
4	135
5	162

C)

Number ofMinutes	Numberof Bags
1	27
2	54
3	108
4	135
5	162

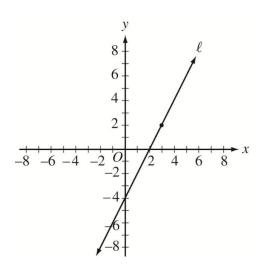
D)

Number ofMinutes	Numberof Bags
1	54
2	108
3	216
4	432
5	864

3/10/2020

Question #3

The graph of line ℓ is shown below. The slope of line k (not shown) is three times the slope of line ℓ , and line k also contains the point (3, 2).



Which of the following tables contains only points that are on line k?

A)

X	-1	0	1
У	-10	-4	2

B)

X	-1	0	1
У	-14	-12	-10

C)

x	-1	0	1
у	-15	-9	-3

D)

x	-1	0	1
У	-22	-16	-10

Which equation represents the relationship between x and y in the table?

X	У
1	2
2	5
3	10
4	17

A)
$$y = x + 1$$

B)
$$y = 2x + 1$$

C)
$$y = x^2 + 1$$

D)
$$y = (x+1)^2 - 2$$

Question #5

The function f(x) is shown in the box.

$$f(x)=4x-2$$

Several values of the function g(x) for different values of x are listed in the table.

X	g(x)
-2	11
-1	7
1	-1
2	-5

Which statement regarding these 2 functions is correct?

- A The sum of the slopes of f(x) and g(x) is 0.
- B The sum of the *y*-intercepts of f(x) and g(x) is 0.
- C The difference between the slopes of f(x) and g(x) is 0.
- The difference between the y-intercepts of f(x) and g(x) is 0.

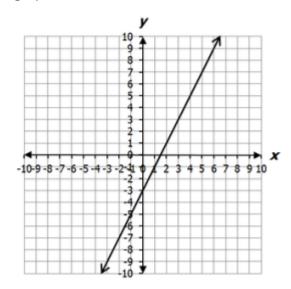
Three different linear functions are represented in the table.

Function A	Function B	Function C
y=2x+4	a line through the points (-2, -4) and (4, 14)	x y -2 -2 0 3 2 8 4 13

Which is the correct order of the functions from least to greatest y-intercept?

Α	Function A,	Function	В.	Function	С
	1 011101101171,		ш,	1 011011011	_

Patricia and her friend Suki are studying for math class. They want to compare 2 functions. The first, f(x), is linear with an x-intercept of 0.5 and a y-intercept of -6. The second, g(x), is shown in the graph.



Which function has the larger slope, and what is that slope?

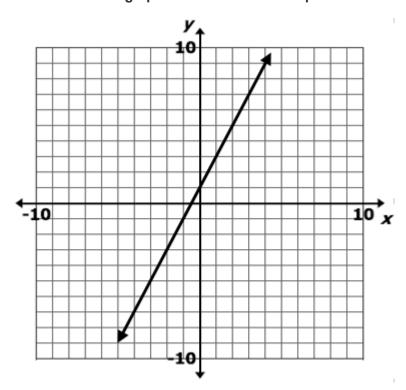
- $\mathsf{B} \qquad f(x); \ 12$
- $C \qquad g(x); \ 2$

Given the line containing the points (4, -5) and (-2, 7) and the equations y = -2x + 9 and 10x + 5y = 6, how are the graphs of the three related?

Α	different slopes; same y-intercepts
В	same slope; different y-intercepts
С	different slopes; different y-intercepts

same slope; same y-intercepts

Consider the line graphed on the coordinate plane.



Which line has a greater slope than the graphed line?

$$egin{aligned} \mathsf{C} & y = rac{2}{3}x + 1 \ & \mathsf{D} & y = rac{1}{2}x + 2 \end{aligned}$$

Consider a function f(x) as defined in the table.

x	f(x)
2	-4
4	4
5	8
7	16

Another function g(x) is defined such that its rate of change is 2 times the rate of change of f(x), and the y-intercept is half the y-intercept of f(x).

Which function *correctly* represents g(x)?

$$\mathsf{B} \qquad g(x) = 8x - 6$$

C
$$g(x) = 4x - 12$$

$$g(x) = 8x - 12$$