Name

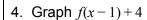
Describe each transformation from g(x) to f(x).

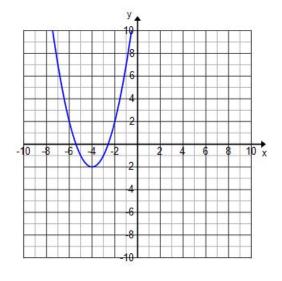
1.
$$f(x) = -3(x+2) - 4$$
 from $g(x) = 3x$ | 2. $f(x) = (x-1) + 6$ from $g(x) = x$

2.
$$f(x) = (x-1) + 6$$
 from $g(x) = x$

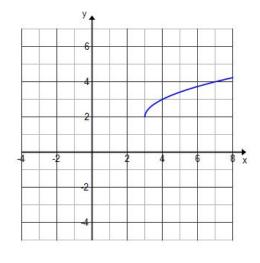
3.
$$f(x) = 4(x-3)-7$$
 from $g(x) = 4(x-1)$

Graph the transformed function of the provided graph.





5. Graph
$$f(x+2)-3$$



Make a new equation in the form of g(x) = a(x - h) + k, that is the transformation of the given function f(x).

6.
$$f(x) = -6x$$

Translated to the right 2 units and up 7 units.

7.
$$f(x) = -4x$$

Reflected and translated down 3 units.

8.
$$f(x) = 5x + 8$$

Translated to the right 3 units and down 6 units.

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$$f(x) = \frac{1}{2}x$$

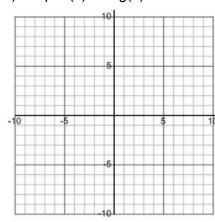
$$g(x) = \frac{1}{2}(x - 4) + 3$$

a) Describe transformation from f(x) to g(x).

b) Create a table for f(x) and g(x).

х	f(x)	g(x)

c) Graph f(x) and g(x).



Using the information, write an equation of the line in point-slope & slope-intercept

Point-Slope:

11. Through: (-2,-4) and (0,1)

Point-Slope:

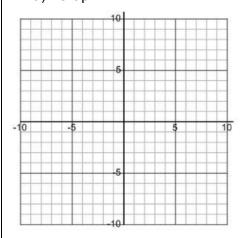
Slope-Intercept:

Slope-Intercept:

12. Table of values

Х	у
1	-7
2	-4
3	-1
4	2
5	5
6	8

a) Graph:



b) Write Equation that models the table.

c) Invent a story problem that models this situation.

- 13. Sprint advertises service for 3 cents per minute plus a monthly fee of \$29.95.
 - a) Write an equation to model the situation. Be sure to indicate what the variables represent.
- b) If Parker's phone bill for August was \$38.95, find the number of minutes he used.
- 14. KP keeps his life savings in a jar consisting of only dimes and quarters. The total value of the coins is currently \$12.00.
 - a) If d represents dimes and q represents quarters, write an equation to model the situation.(d,q)
- b) Solve for q.
- c) If you graphed this line, what does the x-intercept represent.
- d) What does the y-intercept represent?