Solala	10/
Name Schla	12K4
Mr. Schlansky	

Algebra II

Transforming Points

UP3

1. If (2,4) is included in f(x), what point must be included in g(x) if g(x) = f(x) + 3. add 3 to 4 (2,7)

2. If (2,4) is included in f(x), what point must be included in g(x) if g(x) = f(x+3). subtract 3 From x (-1,4)

right 5

3. If (5,1) is included in f(x), what point must be included in g(x) if g(x) = f(x-5)add 5 to x (10,1)

4. If (4,7) is included in f(x), what point must be included in g(x) if g(x) = f(x) - 2. Subtract 2 from 4 (4,5)

5. If (-3,4) is included in f(x), what point must be included in g(x) if g(x) = f(x-4). (114) add 4 to x

6. If (-3,-2) is included in f(x), what point must be included in g(x) if g(x) = f(x) + 4.

(-3,2)

add 4 to 9 10ft 4 down 7

7. If (3,5) is included in f(x), what point must be included in g(x) if g(x) = f(x+4) - 7.

Subtract 7 from x from y from y

(3,-3)

add 1 bx add 3 by

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Vertigl stretch by 2
9. If (-2,4) is included in f(x), what point must be included in g(x) if g(x) = 2f(x).
                                                                                                                                                                                                                        multiply y by 2
             (-2,8)
More that complexing by \frac{1}{2} 10. If (-2,4) is included in f(x), what point must be included in g(x) if g(x) = f(2x).
                                                                                                                                                                                                                             multiply x by }
              (-1, 4)
                                                                                                                                                                                                                          Vertilal compression by 1
11. If (4,-8) is included in f(x), what point must be included in g(x) if g(x) = \frac{1}{2}f(x).
              (4,-4)
                                                                                                                                                                                                                           multiply y by 1
12. If (4,-8) is included in f(x), what point must be included in g(x) if g(x) = f\left(\frac{1}{2}x\right).
                  [8-8]
                                                                                                                                                                                                                            multiply x by 2
howard 5 the included in f(x), what point must be included in g(x) if g(x) = f(\frac{1}{3}x).
                      (-9,2)
                                                                                                                                                                                                                            multiply x by 3
14. If (2,-1) is included in f(x), what point must be included in g(x) if g(x) = 4f(x).
             (2,-4)
In the second of the second o
                                                                                                                                                                                                                             multiply x by &
              (-2,1)
                                                                                                                                                                                                                           Vertical Stretch by 2
16. If (-3,-5) is included in f(x), what point must be included in g(x) if g(x) = 2f(x).
                                                                                                                                                                                                                           multiply y by 2
              [-3,-10]
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17. The function f(x) is given by the following table of values. Which table of values would represent g(x) if g(x) = f(x) + 5?

Ù	p5	
add	56	7

X	f(x)	
1	2+5	7
2	4+5	9
3	8 15	13

1)			6)
1)	X	g(x)	2	X
	5	2		1
	6	4		2
	7	8		3

X	g(x)
1	7
2	9
3	13

X	g(x)
1	-3
2	-1
3	3

X	g(x)
-4	2
-3	4
-2	8

18. The function f(x) is given by the following table of values. Which table of values would represent g(x) if g(x) = f(x + 5)?

X	f(x)
1-5:4	2
2-5:3	4
3-5-2	8

) [X	g(x)
	1	-3
	2	-1
	3	3

X	g(x)
-4	2
-3	4
-2	8

19. The function f(x) is given by the following table of values. Which table of values would

represent g(x) if g(x) = f(2x)?

() ()	,
horzontal	COMPLESSION
by	3

X	f(x)
28=1	18
415)=2	10
8(2)=4	2

1) x g(x) 2 36 4 20 8 4

(2)	X	g(x)
	1	18
ľ	2	10
	4	2

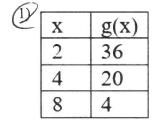
3)	X	g(x)
	2	9
	4	5
	8	1

X	g(x)
4	18
8	10
16	2

20. The function f(x) is given by the following table of values. Which table of values would

represent g(x) if g(x) = 2f(x)?

$$\begin{array}{c|cccc} x & f(x) \\ \hline 2 & 180 = 36 \\ \hline 4 & 100 = 20 \\ \hline 8 & 2(2) = 4 \\ \hline \end{array}$$



$$\begin{array}{c|ccc}
x & g(x) \\
\hline
1 & 18 \\
2 & 10 \\
4 & 2
\end{array}$$

4)