

Alg 2

Fcn Fams

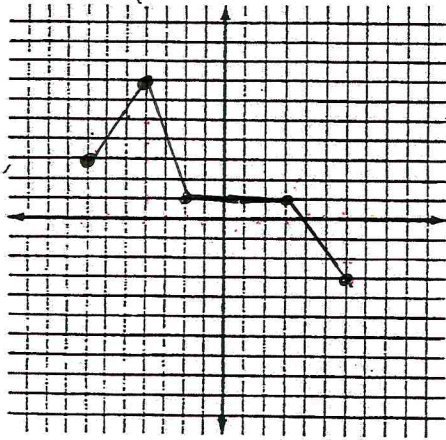
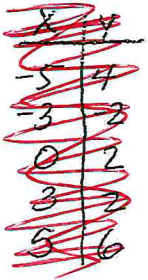
Arbitrary Fcns Review

10-14

Use the same parent function on ~~23~~.

- Tell what a , b , h and k are
- Describe the transformations using the correct vocabulary, numbers, directions.
- Make tables with proper column headings.
- Graph the final table on the graph provided.

Parent Function



Parent Table

x	y
-7	1
-4	4
-2	2
3	2
6	-1

$$10. y = \frac{1}{2}f(x) + 3$$

a) $a = \frac{1}{2}$ $b = 1$
 $h = 0$ $k = 3$

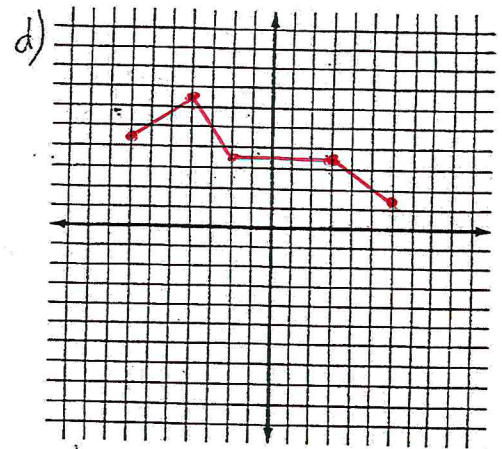
b) Vertical shrink of $\frac{1}{2}$
 translation 3u

c)

x	$\frac{1}{2}y$
-7	$\frac{3}{2}$
-4	$\frac{7}{2}$
-2	$\frac{1}{2}$
3	$\frac{1}{2}$
6	$-\frac{1}{2}$

x	$y+3$
-7	$\frac{9}{2}$
-4	$\frac{13}{2}$
-2	$\frac{7}{2}$
3	$\frac{7}{2}$
6	$\frac{5}{2}$

$$\frac{3}{1} = \frac{6}{2}$$



$$12. y = f(-1(x+2)) - 1$$

a) $a = 1$, $b = -1$,
 $h = -2$, $k = -1$

c)

-x	y
7	3
4	7
2	1
-3	1
-6	-3

x-2	y-1
5	2
2	6
0	0
-5	0
-8	-4

b) horizontal reflection
 translation 2L, 1D

