

Name: _____ Hour: _____ Date: _____

Function Transformations Practice II

Directions: For each of the following, state the name/equation of the parent function, identify the values of a , h and k , and describe the transformations, using the proper vocabulary.

1) $f(x) = -\sqrt{x+2} - 1$

$a =$

$h =$

$k =$

Family Name
~~Parent Function:~~

Parent Function Equation:

Transformations:

2) $f(x) = -(x-2)^3 - 4$

$a =$

$h =$

$k =$

“ “
~~Parent Function:~~

Parent Function Equation:

Transformations:

3) $f(x) = 2(x+2)^2 + 5$

$a =$

$h =$

$k =$

“ “
~~Parent Function:~~

Parent Function Equation:

Transformations:

4) $f(x) = -\frac{1}{2}x + 5$

$a =$

$h =$

$k =$

“ “
~~Parent Function:~~

Parent Function Equation:

Transformations:

5) $f(x) = -2|x+1| + 3$

$a =$

$h =$

$k =$

“ “
~~Parent Function:~~

Parent Function Equation:

Transformations:

Directions: For each of the following identify the values of a , h and k , and describe the transformations, using the proper vocabulary. NOTE: There is not a specified parent function!

6) $y = f(x + 2)$

$a =$

$h =$

$k =$

Transformations:

7) $y = f(x) + 5$

$a =$

$h =$

$k =$

Transformations:

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

$a =$

$h =$

$k =$

Transformations:

9) $y = -f(x)$

$a =$

$h =$

$k =$

Transformations:

10) $y = 2f(x - 5)$

$a =$

$h =$

$k =$

Transformations:

11) $y = -f(x) - 10$

$a =$

$h =$

$k =$

Transformations:

12) $y = -\frac{1}{3}f(x - 1) + 2$

$a =$

$h =$

$k =$

Transformations: