Name: _____ Hour: ____ Date: _____

Function Transformations Practice IV

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) $j(x) = 2|x-1|+3$ $a =$ $h =$ $k =$

Function Family: Parent Function Equation:

Transformations:

2) $j(x) = 2^{x-3}+4$ $a =$ $h =$ $k =$

Function Family: Parent Function Equation:

Transformations:

3) $j(x) = x^2 - 4$ $a =$ $h =$ $k =$

Function Family: Parent Function Equation:

Transformations:

4) $j(x) = 0.4\sqrt[3]{x-2}$ $a =$ $h =$ $k =$

Function Family: Parent Function Equation:

Transformations:

5) $j(x) = -\log(x+3)$ $a =$ $h =$ $k =$

Function Family: Parent Function Equation:

Transformations:

Function Transformations Practice V

Directions: Use the given information to write the equation of a transformed parent function.

6) Function Family: Linear a = -1/2 h = 0 k = 5

7) Function Family: Radical Even a = -1 h = -2 k = -1

8) Function Family: Polynomial Odd a = -1 h = 2 k = -4

9) Function Family: Exponential Decay

Transformations: Reflect over the x-axis Translate left 2

SLOT PRACTICE: You have a slot quiz tomorrow!

Factor the following,

1) $3x^2 - 2x - 5$

2) $2x^2 + 3x - 9$

3) $3x^2 - 8x + 4$

4) $2x^2 + 11x + 5$