

Name: _____ Hour: _____ Date: _____

Function Transformations Practice 2

Directions: For each of the following, state the equation of the parent function, identify the values of a , h and k , and describe the transformations, using the proper vocabulary, *units*, *direction*

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

$a =$

$h =$

$k =$

Parent Function:

Transformations:

2) $f(x) = x^2 - 1$

$a =$

$h =$

$k =$

Parent Function:

Transformations:

3) $h(x) = 2|x - 1|$

$a =$

$h =$

$k =$

Parent Function:

Transformations:

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

$a =$

$h =$

$k =$

Parent Function:

Transformations:

5) $g(x) = x^3 + 3$

$a =$

$h =$

$k =$

Parent Function:

Transformations:

$$6) h(x) = |x + 5| - 2$$

$$a =$$

$$h =$$

$$k =$$

Parent Function:

Transformations:

$$7) g(x) = -3\sqrt{x + 1}$$

$$a =$$

$$h =$$

$$k =$$

Parent Function:

Transformations:

$$8) f(x) = \frac{3}{4}x^3 + 5$$

$$a =$$

$$h =$$

$$k =$$

Parent Function:

Transformations:

$$9) g(x) = -0.2x + 1$$

$$a =$$

$$h =$$

$$k =$$

Parent Function:

Transformations:

$$10) h(x) = 6(x + 9)^2 + 1$$

$$a =$$

$$h =$$

$$k =$$

Parent Function:

Transformations: