A Math Student **Answer Key** ☺

Date_____ Period_____

1) Write the steps to finding the piecewise equivalent to an absolute value function.

1. Determine where the domain restricts : $\frac{|\text{expression}|}{\downarrow >= 0}$

2. Find the non-negative linear expression ≥ critical point   Recall?

3. Find the negative liner expression : < critical point

4. Create piece wise function

$$|x| = \begin{cases} x, & x \geq 0 \\ -x, & x < 0 \end{cases}$$

2) What is the piece wise equivalent to the function $f(x) = -|3x + 6| + 2$?

①
$3x + 6 = 0$
$-6 \quad -6$
$\frac{3x}{3} = \frac{-6}{3}$
$x = -2$

② Non- Negative
$-(3x+6)+2$
$-3x-6+2$
$-3x-4$
$x \geq -2$

③ Negative
$--(3x+6)+2$
$3x+6+2$
$3x+8$
$x<2$

④
$$f(x) = \begin{cases} -3x-4 & \text{if} \quad x \geq -2 \\ 3x+8 & \text{if} \quad x < 2 \end{cases}$$

3) What is the piecewise equivalent to the function $g(x) = -|2x + 1| + 5$?

①
$2x + 1 = 0$
$\quad -1 \quad -1$
$\frac{2x}{2} = \frac{-1}{2}$
$x = -\frac{1}{2}$

② Non-Negative
$x \geq -\frac{1}{2}$
$-(2x+1)+5$
$-2x-1+5$
$-2x+4$

③ Negative
$x < -\frac{1}{2}$
$--(2x+1)+5$
$2x+1+5$
$2x+6$

④
$$g(x) = \begin{cases} -2x+4 & \text{if} \quad x \geq -\frac{1}{2} \\ 2x+6 & \text{if} \quad x < -\frac{1}{2} \end{cases}$$

Describe the transformations, if any, of the functions below when applied to the $f(x)=|x|$.

$= a|bx - c| + d$

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

$b : \frac{1}{2} \rightarrow$ Horizontal Stretch by a factor of 2

$c : 2 \rightarrow$ Horizontal shift 2 units right

$d : 5 \rightarrow$ Vertical shift 5 units up

$= a|bx - c| + d$

5) $h(x) = -4|x + 6| - 3$ ↳ parent function

$a : -4 \rightarrow$ x-axis reflection, Vertical stretch by a factor of 4

$c : -6 \rightarrow$ Horizontal shift 6 units left

$d : -3 \rightarrow$ Vertical shift 3 units down

Write the equation that is described by the transformations.

6) The absolute function, $f(x)$, if horizontally stretched by a factor of 2, shifted horizontally right 3 units, and shifted vertically five units up.

$$f(x) = \left|\frac{1}{2}x - 3\right| + 5$$

Algebra Unit 2

CH Cherryholmes

Algebra Unit 2:

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