

## Answer Key is

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

1. Determine where the domain restricts:  $\text{expression} \geq 0$
2. Find the non-negative linear expression  $\geq$  Critical point
3. Find the negative linear expression  $<$  critical point
4. Create piecewise function

Recall

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

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

② Non-Negative

$$\begin{aligned} 3x + 6 &= 0 \\ -6 &-6 \\ 3x &= -6 \\ x &= -2 \end{aligned}$$

③ Negative

$$\begin{aligned} -(3x + 6) + 2 &= 0 \\ -3x - 6 + 2 &= 0 \\ -3x - 4 &= 0 \\ 3x + 4 &= 0 \\ 3x &= -4 \\ x &= -\frac{4}{3} \end{aligned}$$

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

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

② Non-Negative

$$\begin{aligned} 2x + 1 &= 0 \\ 1 &-1 \\ 2x &= -1 \\ x &= -\frac{1}{2} \end{aligned}$$

③ Negative

$$\begin{aligned} -(2x + 1) + 5 &= 0 \\ -2x - 1 + 5 &= 0 \\ -2x + 4 &= 0 \\ 2x &= 4 \\ x &= 2 \end{aligned}$$

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

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

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

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

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

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

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.

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

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

 $a: -4 \rightarrow$  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

# Algebra Unit 2

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