

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

1. Determine where the domain restricts: $x \geq 0$ |expression|

2. Find the non-negative linear expression \geq Critical point Recall

3. Find the negative linear 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 $f(x) = -|3x + 6| + 2$?

② Non-Negative

④

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

③ Negative

$$\begin{aligned} -(3x+6) &+ 2 \\ -3x - 6 &+ 2 \\ -3x - 4 & \quad \quad \quad 3x + 6 + 2 \\ x &\geq -2 \end{aligned}$$

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

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

② Non-Negative

④

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

③ Negative

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

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

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

$$= a|bx - c| + d$$

4) $f(x) = \frac{1}{2}|x - 2| + 5$
 $b: \frac{1}{2} \rightarrow$ Horizontal stretch by a factor of $\frac{1}{2}$

$$= a|bx - c| + d$$

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

$c: 2 \rightarrow$ 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.

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

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