

Algebra 2 Honors Lesson 1.6 Piecewise Function

Directions: Evaluate the function when $x = -8, -2, 0, \frac{7}{2}$, and 5.

1. $h(x) = \begin{cases} -3x, & \text{if } x < 0 \\ 2x + 7, & \text{if } x \geq 0 \end{cases}$

Because $x = -8$ and $-8 < 0$, use the first equation.

$$h(x) = -3x$$

$$h(-8) = -3(-8) = 24$$

Because $x = -2$ and $-2 < 0$, use the first equation.

$$h(x) = -3x$$

$$h(-2) = -3(-2) = 6$$

Because $x = 0$ and $0 \geq 0$, use the second equation.

$$h(x) = 2x + 7$$

$$h(0) = 2(0) + 7 = 0 + 7 = 7$$

Because $x = \frac{7}{2}$ and $\frac{7}{2} \geq 0$, use the second equation.

$$h(x) = 2x + 7$$

$$h\left(\frac{7}{2}\right) = 2\left(\frac{7}{2}\right) + 7 = 7 + 7 = 14$$

Because $x = 5$ and $5 \geq 0$, use the second equation.

$$h(x) = 2x + 7$$

$$h(5) = 2(5) + 7 = 10 + 7 = 17$$

2. $h(x) = \begin{cases} 3, & \text{if } x < -2 \\ x + 2, & \text{if } -2 \leq x \leq 5 \\ 4x, & \text{if } x > 5 \end{cases}$

Because $x = -8$ and $-8 < -2$, use the first equation.

$$f(x) = 3$$

$$f(-8) = 3$$

Because $x = -2$ and $-2 \geq -2$, use the second equation.

$$f(x) = x + 2$$

$$f(-2) = -2 + 2 = 0$$

Because $x = 0$ and $0 \leq 5$, use the second equation.

$$f(x) = x + 2$$

$$f(0) = 0 + 2 = 2$$

Because $x = \frac{7}{2}$ and $\frac{7}{2} \leq 5$, use the second equation.

$$f(x) = x + 2$$

$$f\left(\frac{7}{2}\right) = \frac{7}{2} + 2 = \frac{11}{2}$$

Because $x = 5$ and $5 \leq 5$, use the second equation.

$$f(x) = x + 2$$

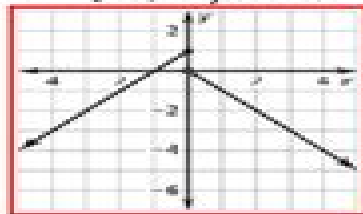
$$f(5) = 5 + 2 = 7$$

3. REASONING When evaluating a piecewise function, can two different inputs have the same output? Explain your reasoning.

yes; A piecewise function is a function, so the restriction is that each input has exactly one output. There is no restriction stating that the output can only be used once.

Directions: Graph the function. Describe the domain, range, and end behavior of the function.

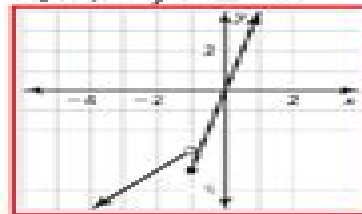
4. $y = \begin{cases} x + 1, & \text{if } x \leq 0 \\ -x, & \text{if } x > 0 \end{cases}$



Domain: $(-\infty, \infty)$ **Range:** $(-\infty, 1]$

End Behavior: $\lim_{x \rightarrow -\infty} f(x) = -\infty$
 $\lim_{x \rightarrow +\infty} f(x) = -\infty$

5. $y = \begin{cases} x - 2, & \text{if } x < -1 \\ 4x, & \text{if } x \geq -1 \end{cases}$



Domain: $(-\infty, \infty)$ **Range:** $(-\infty, \infty)$

End Behavior: $\lim_{x \rightarrow -\infty} f(x) = -\infty$
 $\lim_{x \rightarrow +\infty} f(x) = \infty$

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