

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.

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

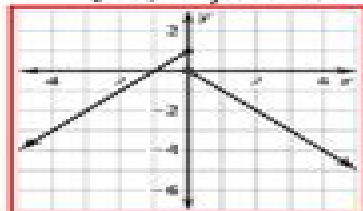
$$f(5) = 5 + 2 = 7$$

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.

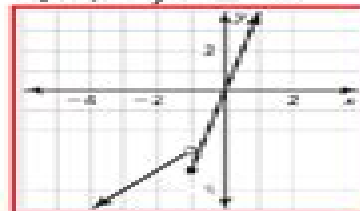
4. $y = \begin{cases} x + 1, & \text{if } x \leq 0 \\ -x, & \text{if } x > 0 \end{cases}$



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

Algebra 2 Lesson 1 Practice

Caren Van Slyke

A red circular graphic with a gradient, appearing as a partial circle or a thick arrow pointing to the right, located to the right of the author's name.

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Table of Contents Algebra 2 Lesson 1 Practice

1. Understanding the eBook Algebra 2 Lesson 1 Practice
 - The Rise of Digital Reading Algebra 2 Lesson 1 Practice
 - Advantages of eBooks Over Traditional Books
2. Identifying Algebra 2 Lesson 1 Practice
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Algebra 2 Lesson 1 Practice
 - User-Friendly Interface
4. Exploring eBook Recommendations from Algebra 2 Lesson 1 Practice
 - Personalized Recommendations
 - Algebra 2 Lesson 1 Practice User Reviews and Ratings
 - Algebra 2 Lesson 1 Practice and Bestseller Lists
5. Accessing Algebra 2 Lesson 1 Practice Free and Paid eBooks

- Algebra 2 Lesson 1 Practice Public Domain eBooks
 - Algebra 2 Lesson 1 Practice eBook Subscription Services
 - Algebra 2 Lesson 1 Practice Budget-Friendly Options
6. Navigating Algebra 2 Lesson 1 Practice eBook Formats
- ePub, PDF, MOBI, and More
 - Algebra 2 Lesson 1 Practice Compatibility with Devices
 - Algebra 2 Lesson 1 Practice Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Algebra 2 Lesson 1 Practice
 - Highlighting and Note-Taking Algebra 2 Lesson 1 Practice
 - Interactive Elements Algebra 2 Lesson 1 Practice
8. Staying Engaged with Algebra 2 Lesson 1 Practice
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Algebra 2 Lesson 1 Practice
9. Balancing eBooks and Physical Books Algebra 2 Lesson 1 Practice
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Algebra 2 Lesson 1 Practice
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Algebra 2 Lesson 1 Practice
- Setting Reading Goals Algebra 2 Lesson 1 Practice
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Algebra 2 Lesson 1 Practice
- Fact-Checking eBook Content of Algebra 2 Lesson 1 Practice
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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