

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.

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

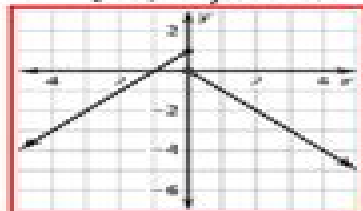
$$f(5) = 5 + 2 = 7$$

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.

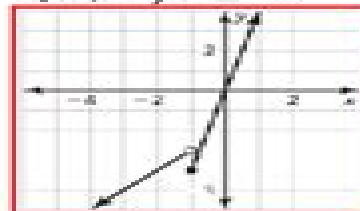
4. $y = \begin{cases} x + 1, & \text{if } x \leq 0 \\ -x, & \text{if } x > 0 \end{cases}$



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 Hw Mathematics Unit 07 Lesson 01

Tony G. Williams



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Algebra 2 McDougal Littell Incorporated, Ron Larson, 2004 *Daily Math Practice for Fifth Grade (Week 7)* Jodene Smith, 2014-01-01 This week of practice pages build fifth graders mathematical fluency Each problem is tied to a specific mathematical concept Daily practice through these quick activities will help your young mathematicians Great formative assessment tool *Everyday Mathematics Teacher Lesson Guide Volume 1 Grade 5* University of Chicago. School Mathematics Project, 2007 The Teacher s Lesson Guide provides easy to follow lessons organized by instructional unit as well as built in mathematical content support Lessons include planning and assessment tips and multilevel differentiation strategies for all learners This English Spanish Edition provides dual language support **Eureka Math Curriculum Study Guide** Common Core, 2015-03-23 Eureka Math is a comprehensive content rich PreK 12 curriculum that follows the focus and coherence of the Common Core State Standards in Mathematics CCSSM and carefully sequences the mathematical progressions into expertly crafted instructional modules The companion Study Guides to Eureka Math gather the key components of the curriculum for each grade into a single location unpacking the standards in detail so that both users and non users of Eureka Math can benefit equally from the content presented Each of the Eureka Math Curriculum Study Guides includes narratives that provide educators with an overview of what students should be learning throughout the year information on alignment to the instructional shifts and the standards design of curricular components approaches to differentiated instruction and descriptions of mathematical models The Study Guides can serve as either a self study professional development resource or as the basis for a deep group study of the standards for a particular grade For teachers who are new to the classroom or the standards the Study Guides introduce them not only to Eureka Math but also to the content of the grade level in a way they will find manageable and useful Teachers familiar with the Eureka Math curriculum will also find this resource valuable as it allows for a meaningful study of the grade level content in a way that highlights the coherence between modules and topics The Study Guides allow teachers to obtain a firm grasp on what it is that students should master during the year The Eureka Math Curriculum Study Guide Grade 2 provides an overview of all of the Grade 2 modules including Sums and Differences to 20 Addition and Subtraction of Length Units Place Value Counting and Comparison of Numbers to 1 000 Addition and Subtraction Within 200 with Word Problems to 100 Addition and Subtraction Within 1 000 with Word Problems to 100 Foundations of Multiplication and Division Problem Solving with Length Money and Data and Time Shapes and Fractions as Equal Parts of Shapes [Common Entrance 13+ Additional Mathematics for ISEB CE and KS3 Textbook Answers](#) Serena Alexander, 2021-09-10 This resource contains full answers to Common Entrance 13 Additional Mathematics for ISEB CE and KS3 ISBN 9781398321281 Additional comments that follow the cross curricular SCEE Social Cultural Empathy and Environmental feature boxes for further activities Extra advice on investigations and projects A sample Scheme of Work presents the CE content which must be covered in preparation for CE 13 It is possible to

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