

8.3 Piecewise Functions

8.3 Practice

Use the piecewise function to evaluate the following.

1.

$$f(x) = \begin{cases} -2x^2 - 1, & x \leq 2 \\ 4 \\ \frac{4}{5}x - 4, & x > 2 \end{cases}$$

$$a. f(0) = -2(0)^2 - 1$$

$$= 0 - 1$$

$$\boxed{f(0) = -1}$$

$$b. f(5) = \frac{4}{5}(5) - 4$$

$$= 4 - 4$$

$$\boxed{f(5) = 0}$$

$$c. f(2) = -2(2)^2 - 1$$

$$= -2(4) - 1$$

$$= -8 - 1$$

$$\boxed{f(2) = -9}$$

$$d. f(-3) = -2(-3)^2 - 1$$

$$= -2(9) - 1$$

$$= -18 - 1$$

$$\boxed{f(-3) = -19}$$

2.

$$f(x) = \begin{cases} x^3 - 7x, & x \leq -3 \\ 8, & -3 < x \leq 3 \\ 77, & x > 3 \end{cases}$$

$$a. f(-5) = (-5)^3 - 7(-5)$$

$$= -125 + 35$$

$$\boxed{f(-5) = -90}$$

$$\boxed{f(11) = 77}$$

$$c. f(0) = 8$$

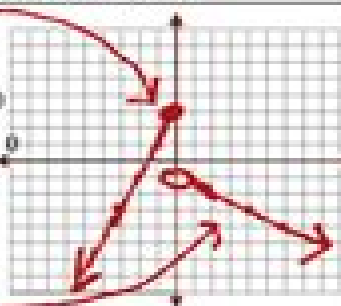
$$d. f(3) = 8$$

These are super easy when the functions are constant! No work!

Graph the following piecewise functions.

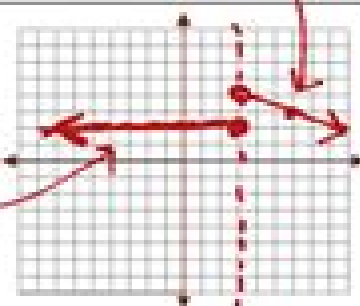
3.

$$f(x) = \begin{cases} 2x + 3, & x \leq 0 \\ -\frac{1}{2}x - 1, & x > 0 \end{cases}$$



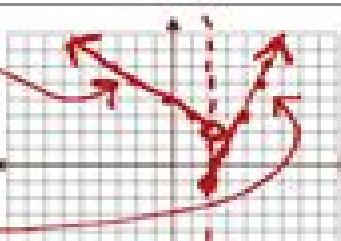
4.

$$f(x) = \begin{cases} -\frac{1}{3}x + 5, & x > 3 \\ 2, & x \leq 3 \end{cases}$$



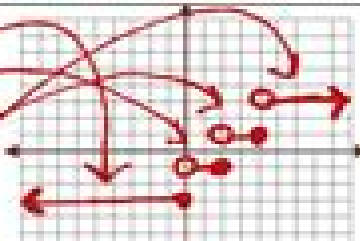
5.

$$f(x) = \begin{cases} 4 - x, & x < 2 \\ 2x - 6, & x \geq 2 \end{cases}$$



6.

$$f(x) = \begin{cases} -3, & x \leq 0 \\ -1, & 0 < x \leq 2 \\ 1, & 2 < x \leq 4 \\ 3, & x \geq 4 \end{cases}$$



Common Core Algebra 1 Activities

M Mark



Common Core Algebra 1 Activities:

This book delves into Common Core Algebra 1 Activities. Common Core Algebra 1 Activities is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Common Core Algebra 1 Activities, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Common Core Algebra 1 Activities
 - Chapter 2: Essential Elements of Common Core Algebra 1 Activities
 - Chapter 3: Common Core Algebra 1 Activities in Everyday Life
 - Chapter 4: Common Core Algebra 1 Activities in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of Common Core Algebra 1 Activities. This chapter will explore what Common Core Algebra 1 Activities is, why Common Core Algebra 1 Activities is vital, and how to effectively learn about Common Core Algebra 1 Activities.
 3. In chapter 2, the author will delve into the foundational concepts of Common Core Algebra 1 Activities. This chapter will elucidate the essential principles that need to be understood to grasp Common Core Algebra 1 Activities in its entirety.
 4. In chapter 3, this book will examine the practical applications of Common Core Algebra 1 Activities in daily life. The third chapter will showcase real-world examples of how Common Core Algebra 1 Activities can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Common Core Algebra 1 Activities in specific contexts. This chapter will explore how Common Core Algebra 1 Activities is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Common Core Algebra 1 Activities. The final chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Common Core Algebra 1 Activities.

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Table of Contents Common Core Algebra 1 Activities

1. Understanding the eBook Common Core Algebra 1 Activities
 - The Rise of Digital Reading Common Core Algebra 1 Activities
 - Advantages of eBooks Over Traditional Books
2. Identifying Common Core Algebra 1 Activities
 - 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 Common Core Algebra 1 Activities
 - User-Friendly Interface
4. Exploring eBook Recommendations from Common Core Algebra 1 Activities
 - Personalized Recommendations
 - Common Core Algebra 1 Activities User Reviews and Ratings
 - Common Core Algebra 1 Activities and Bestseller Lists
5. Accessing Common Core Algebra 1 Activities Free and Paid eBooks
 - Common Core Algebra 1 Activities Public Domain eBooks
 - Common Core Algebra 1 Activities eBook Subscription Services
 - Common Core Algebra 1 Activities Budget-Friendly Options
6. Navigating Common Core Algebra 1 Activities eBook Formats
 - ePub, PDF, MOBI, and More
 - Common Core Algebra 1 Activities Compatibility with Devices
 - Common Core Algebra 1 Activities Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Common Core Algebra 1 Activities
 - Highlighting and Note-Taking Common Core Algebra 1 Activities
 - Interactive Elements Common Core Algebra 1 Activities
8. Staying Engaged with Common Core Algebra 1 Activities

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Common Core Algebra 1 Activities
9. Balancing eBooks and Physical Books Common Core Algebra 1 Activities
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Common Core Algebra 1 Activities
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Common Core Algebra 1 Activities
 - Setting Reading Goals Common Core Algebra 1 Activities
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Common Core Algebra 1 Activities
 - Fact-Checking eBook Content of Common Core Algebra 1 Activities
 - 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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