

## Task 1: Analyze - Complete with Section 4.1 - Worth 10 points.

Given two functions  $f$  and  $g$ , the composite function, denoted  $f \circ g$  (read as "f composed with g") is defined by  $(f \circ g)(x) = f(g(x))$ . The domain of  $f \circ g$  is the set of all numbers  $x$  such that

1.  $x$  is in the domain of  $g$  and
2.  $g(x)$  is in the domain of  $f$ .

Consider the functions:  $f(x) = \frac{x}{2x+1}$  and  $g(x) = \frac{6}{x}$

- a. What is the domain of  $f(x)$ ?  $(-\infty, -\frac{1}{2}) \cup (-\frac{1}{2}, \infty)$
- b. What is the domain of  $g(x)$ ?  $(-\infty, 0) \cup (0, \infty)$
- c. What is the difference between  $(f \cdot g)(x)$  and  $(f \circ g)(x)$ ? What is each expression asking you to calculate?

$(f \cdot g)(x)$  in multiplication of  $f(x)$  and  $g(x)$ .  
and  $(f \circ g)(x)$  in composition of  $f(x)$  and  $g(x)$ .

- d. Find  $(f \cdot g)(x)$ . Simplify your answer. Show your work.

$$(f \cdot g)(x) = f(x) \cdot g(x) = \left(\frac{x}{2x+1}\right)\left(\frac{6}{x}\right)$$

- e. What is the domain of  $(f \cdot g)(x)$ ? (Remember you should state your domain from the answer before you simplified it).

$$(-\infty, -\frac{1}{2}) \cup (-\frac{1}{2}, \infty)$$

- f. Evaluate  $(f \cdot g)(3)$

$$\cancel{f \cdot g} (f \cdot g)(3) = \frac{6}{6+1} = \frac{6}{7}$$

- g. Find  $(f \circ g)(x)$ . Simplify the complex fraction. Show your work.

$$(f \circ g)(x) = f(g(x)) = f\left(\frac{6}{x}\right) = \frac{\frac{6}{x}}{2x\left(\frac{6}{x}\right)+1} = \frac{6}{12+x}$$

- h. What is the domain of  $(f \circ g)(x)$ ?
- i. Evaluate  $(f \circ g)(3)$

# Preap Precalculus Chapter 4 Test

**AN Whitehead**



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### **Table of Contents Preap Precalculus Chapter 4 Test**

1. Understanding the eBook Preap Precalculus Chapter 4 Test
  - The Rise of Digital Reading Preap Precalculus Chapter 4 Test
  - Advantages of eBooks Over Traditional Books
2. Identifying Preap Precalculus Chapter 4 Test
  - 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 Preap Precalculus Chapter 4 Test
  - User-Friendly Interface
4. Exploring eBook Recommendations from Preap Precalculus Chapter 4 Test
  - Personalized Recommendations
  - Preap Precalculus Chapter 4 Test User Reviews and Ratings
  - Preap Precalculus Chapter 4 Test and Bestseller Lists

5. Accessing Preap Precalculus Chapter 4 Test Free and Paid eBooks
  - Preap Precalculus Chapter 4 Test Public Domain eBooks
  - Preap Precalculus Chapter 4 Test eBook Subscription Services
  - Preap Precalculus Chapter 4 Test Budget-Friendly Options
6. Navigating Preap Precalculus Chapter 4 Test eBook Formats
  - ePub, PDF, MOBI, and More
  - Preap Precalculus Chapter 4 Test Compatibility with Devices
  - Preap Precalculus Chapter 4 Test Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Preap Precalculus Chapter 4 Test
  - Highlighting and Note-Taking Preap Precalculus Chapter 4 Test
  - Interactive Elements Preap Precalculus Chapter 4 Test
8. Staying Engaged with Preap Precalculus Chapter 4 Test
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Preap Precalculus Chapter 4 Test
9. Balancing eBooks and Physical Books Preap Precalculus Chapter 4 Test
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Preap Precalculus Chapter 4 Test
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Preap Precalculus Chapter 4 Test
  - Setting Reading Goals Preap Precalculus Chapter 4 Test
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Preap Precalculus Chapter 4 Test
  - Fact-Checking eBook Content of Preap Precalculus Chapter 4 Test
  - 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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