

Chapter 2

Functions and Their Graphs

Section 2.1

1. $\{-1, 3\}$

$$\begin{aligned} 2. \quad 3(-2)^2 - 5(-2) + \frac{1}{(-2)} &= 3(4) - 5(-2) - \frac{1}{2} \\ &= 12 + 10 - \frac{1}{2} \\ &= \frac{43}{2} \text{ or } 21\frac{1}{2} \text{ or } 21.5 \end{aligned}$$

3. We must not allow the denominator to be 0.
 $x + 4 \neq 0 \Rightarrow x \neq -4$; Domain: $\{x \mid x \neq -4\}$.

4. $3 - 2x > 5$
 $-2x > 2$
 $x < -1$

Solution set: $\{x \mid x < -1\}$ or $(-\infty, -1)$



5. independent; dependent

6. range

7. $[0, 5]$

We need the intersection of the intervals $[0, 7]$ and $[-2, 5]$. That is, domain of $f \cap$ domain of g .



8. $x \in f; g$

9. $(g - f)(x)$ or $g(x) - f(x)$

10. False; every function is a relation, but not every relation is a function. For example, the relation $x^2 + y^2 = 1$ is not a function.

11. True

12. True

13. False; if the domain is not specified, we assume it is the largest set of real numbers for which the value of f is a real number.

14. False; the domain of $f(x) = \frac{x^2 - 4}{x}$ is $\{x \mid x \neq 0\}$.

15. Function
 Domain: {Elvis, Colleen, Kaleigh, Marissa}
 Range: {Jan, 8, Mar, 15, Sept, 17}

16. Not a function

17. Not a function

18. Function
 Domain: {Less than 9th grade, 9th-12th grade, High School Graduate, Some College, College Graduate}
 Range: {\$18,120, \$23,251, \$36,055, \$45,810, \$67,165}

19. Not a function

20. Function
 Domain: $\{-2, -1, 3, 4\}$
 Range: $\{3, 5, 7, 12\}$

21. Function
 Domain: $\{1, 2, 3, 4\}$
 Range: $\{3\}$

22. Function
 Domain: $\{0, 1, 2, 3\}$
 Range: $\{-2, 3, 7\}$

23. Not a function

24. Not a function

25. Function
 Domain: $\{-2, -1, 0, 1\}$
 Range: $\{0, 1, 4\}$

26. Function
 Domain: $\{-2, -1, 0, 1\}$
 Range: $\{3, 4, 16\}$

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M Walker



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1. Understanding the eBook Pre Calculus Michael Sullivan 9th Edition Answer
 - The Rise of Digital Reading Pre Calculus Michael Sullivan 9th Edition Answer
 - Advantages of eBooks Over Traditional Books
2. Identifying Pre Calculus Michael Sullivan 9th Edition Answer
 - 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 Pre Calculus Michael Sullivan 9th Edition Answer
 - User-Friendly Interface
4. Exploring eBook Recommendations from Pre Calculus Michael Sullivan 9th Edition Answer
 - Personalized Recommendations
 - Pre Calculus Michael Sullivan 9th Edition Answer User Reviews and Ratings
 - Pre Calculus Michael Sullivan 9th Edition Answer and Bestseller Lists
5. Accessing Pre Calculus Michael Sullivan 9th Edition Answer Free and Paid eBooks
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 - Pre Calculus Michael Sullivan 9th Edition Answer eBook Subscription Services
 - Pre Calculus Michael Sullivan 9th Edition Answer Budget-Friendly Options

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 - Pre Calculus Michael Sullivan 9th Edition Answer Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Pre Calculus Michael Sullivan 9th Edition Answer
 - Highlighting and Note-Taking Pre Calculus Michael Sullivan 9th Edition Answer
 - Interactive Elements Pre Calculus Michael Sullivan 9th Edition Answer
8. Staying Engaged with Pre Calculus Michael Sullivan 9th Edition Answer
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Pre Calculus Michael Sullivan 9th Edition Answer
9. Balancing eBooks and Physical Books Pre Calculus Michael Sullivan 9th Edition Answer
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Pre Calculus Michael Sullivan 9th Edition Answer
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Pre Calculus Michael Sullivan 9th Edition Answer
 - Setting Reading Goals Pre Calculus Michael Sullivan 9th Edition Answer
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Pre Calculus Michael Sullivan 9th Edition Answer
 - Fact-Checking eBook Content of Pre Calculus Michael Sullivan 9th Edition Answer
 - 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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