RELATIONS & FUNCTIONS

ANSWERS

IN CHAPTER EXERCISE-1

- 1. x = 2 & y = 1
- 2 9
- 3. F.T.T.
- 4. $A \times A \times A = \{(1,1,1)(1,1,-1), (1,-1,1), (-1,1,1)(-1,-1,1), (-1,1,-1), (-1,1,-1), (-1,-1,-1)\}$
- A = (a, b), B = (x, y)
- To Venify
- Number of subsets of A×B = 2^{B(A×B)} = 2⁴ = 16

$P(A \times B)$

- S. A = (x, y, z), B = (1, 2)
- 9. $A = \{-1,0,1\}$. The remaining elements are (-1,-1),(-1,1),(0,-1),(0,0),(1,-1),(1,0),(1,1).
- Range of R = (3,6,9,12)
 Codomain of R = (1,2,3,...,14)
- R = {(1,6), (2,7), (3,8)}, Domain of R = {1, 2, 3}
 Range of R = (6,7,8), Codomain of R = The set of natural numbers N
- 12. R = {(1,4),(1,6),(2,9),(3,4),(3,6),(5,4),(5,6)}
- 13. Domain of R = (5,6,7) Range of R = (3,4,5)
- 14 (i) R in roster form is as given below:
 R = {(1,1), (1,2), (1,3), (1,4), (1,6), (2,2), (2,4), (3,6), (4,4), (6,6)}
 - (ii) Domain of R = (1,2,3,4,6)
 - (iii) Range of R = (1, 2, 3, 4, 6)
- 15. Domain = (0,1,2,3,4,5), Range = (5,6,7,8,9,10)
- 16. R = {(2,8),(3,27),(5,125),(7,343)}
- 17. 64
- Domain of R = The set of all integers Z

Range of R = The set of all integers Z

IN CHAPTER EXERCISE-2

Refer solutions

IN CHAPTER EXERCISE-3

- 35. Function, Function, Not a Function.
- 36. f(0) = -5, f(7) = 9, f(-3) = -11
- 37. (i) Domain = x e R , Range = (-00,0]
 - (ii) Domain = x e [-3,3], range = [0,3]
- 33. (i) t(0) = 32 degree Fahrenheit
 - (ii) t(28) = 82.4 degree Fahrenheit
 - (iii) t(-10) = 14 degree Fehrenheit
 - (rv) C = 100 degree Celsius
- 39. (i) Range = (-10, 2)
 - (ii) Range = [2,∞)
 - (iii) Range = R.
- 40. To Prove
- 41. 2.1
- 42 Domain of f is x e R (6,2).
- Domain of f is x e [1,∞), Range of f is [0,∞)
- 44. f(x) = |x-1| is defined for all x ∈ R. Hence domain set of f is x ∈ R.

Also $|x-1| \ge 0 \Rightarrow f(x) \ge 0$.

Hence range set of f is [0,00).

- 45. [0.1).
- 46. $(f+g)(x) = 3x 2, x \in \mathbb{R}$

$$(f-g)(x) = -x + 4, x \in \mathbb{R}$$

$$\left(\frac{\mathbf{f}}{\mathbf{g}}\right)(\mathbf{x}) = \frac{\mathbf{x}+1}{2\mathbf{x}-3}, \mathbf{x} \in \mathbb{R} - \left\{\frac{3}{2}\right\}$$

- 47. a = 2, b = -1
- 48. $R = \{(a,b) : a,b \in N \& a = b^2\}$

Hence a and b related to each other if a is square of b.

- (i) Felse
- (ii) Felse
- (iii) Felice
- 49. f = {(1,5),(2,9),(3,1),(4,5),(2,11)}
 - (i) f is a relation from A to B
 - (ii) f is not a function from A to B
- Not a function.
- 51. f(n) = {3,5,11,13}

Relations And Functions Answers

David Lockwood, Michael
Cummings, Peter Fries, William Spruiell

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Table of Contents Relations And Functions Answers

- 1. Understanding the eBook Relations And Functions Answers
 - The Rise of Digital Reading Relations And Functions Answers
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Relations And Functions Answers
 - 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 Relations And Functions Answers
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Relations And Functions Answers

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

- Fact-Checking eBook Content of Relations And Functions Answers
- 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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