

EECS 203: Discrete Mathematics

Individual Homework 3 (Winter 2016)

Answer Key

Due: May 19, 2016

1. (2 points) Section 1.6 Problem 28

Solution:

1.	$\forall x(P(x) \vee Q(x))$	premise
2.	$\forall x((\neg P(x) \wedge Q(x)) \rightarrow R(x))$	premise
	Let c be an arbitrary value	
3.	$P(c) \vee Q(c)$	Universal instantiation, 1
4.	$(\neg P(c) \wedge Q(c)) \rightarrow R(c)$	Universal instantiation, 2
5.	$\neg(\neg P(c) \wedge Q(c)) \vee R(c)$	Definition of \rightarrow
6.	$P(c) \vee \neg Q(c) \vee R(c)$	De Morgans, 5
7.	$(P(c) \vee R(c)) \vee \neg Q(c)$	Commutative, Associative, 6
8.	$P(c) \vee P(c) \vee R(c)$	Resolution, 3, 7
9.	$P(c) \vee R(c)$	Idempotent, 8
10.	$\neg R(c) \rightarrow P(c)$	Definition of \rightarrow
11.	$\forall x(\neg R(x) \rightarrow P(x))$	Universal generalization, 10

2. (2 points) Prove that there are no integer solutions for y and z to the equation $2z^2 + 5y^2 = 14$.

Solution: Because both z^2 and y^2 are nonnegative, each term on the left must be no greater than 14. $2 \cdot 3^2 = 2 \cdot 9 = 18 > 14$, so $|z| < 3$. $5 \cdot 2^2 = 5 \cdot 4 = 20 > 14$, so $|y| < 2$. Because y and z are integers, $|z| \leq 2$ and $|y| \leq 1$. This means $2z^2 + 5y^2 \leq 2 \cdot 2^2 + 5 \cdot 1^2 = 2 \cdot 4 + 5 \cdot 1 = 8 + 5 = 13 < 14$. The biggest the expression can get is still 1 less than 14.

Alternately, because of the absolute value inequalities, we can write out a few cases.

We know $|z| \in \{0, 1, 2\}$ and $|y| \in \{0, 1\}$, so we have only 6 cases:

$$2 \cdot 0^2 + 5 \cdot 0^2 = 0 \neq 14$$

$$2 \cdot 1^2 + 5 \cdot 0^2 = 2 \neq 14$$

$$2 \cdot 2^2 + 5 \cdot 0^2 = 8 \neq 14$$

$$2 \cdot 0^2 + 5 \cdot 1^2 = 5 \neq 14$$

$$2 \cdot 1^2 + 5 \cdot 1^2 = 7 \neq 14$$

$$2 \cdot 2^2 + 5 \cdot 1^2 = 13 \neq 14$$

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M Tight



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Table of Contents Mathematics For Individual Achievement Solution Key

1. Understanding the eBook Mathematics For Individual Achievement Solution Key
 - The Rise of Digital Reading Mathematics For Individual Achievement Solution Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics For Individual Achievement Solution Key
 - 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 Mathematics For Individual Achievement Solution Key
 - User-Friendly Interface

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

12. Sourcing Reliable Information of Mathematics For Individual Achievement Solution Key
 - Fact-Checking eBook Content of Mathematics For Individual Achievement Solution Key
 - 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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