

MATH 209 LAB EL08, Fall 2022, Lab Quiz 2 – Solutions

October 17, 2022, 14:00–14:30 p.m.

Total points are 10 with Question 1: 4 pts, Question 2: 3 pts, Question 3: 3 pts.

1. (4 points) Consider the function $f(x, y, z) = x^3 + 2yz - xy^2 + 5xz$.

- (a) (1 point) Compute the gradient $\nabla f(x, y, z)$.

Solution: We compute all first order derivatives of $f(x, y, z)$. In particular, we have

$$\frac{\partial f}{\partial x} = 3x^2 - y^2 + 5z,$$

$$\frac{\partial f}{\partial y} = 2z - 2xy,$$

$$\frac{\partial f}{\partial z} = 5x + 2y.$$

Hence, the gradient $\nabla f(x, y, z)$ is given by

$$\nabla f(x, y, z) = \begin{pmatrix} 3x^2 - y^2 + 5z \\ 2z - 2xy \\ 5x + 2y \end{pmatrix}.$$

- (b) (1 point) Find the unit vector at the point $P(2, 3, 2)$ into the direction of $Q(3, 6, 4)$.

Solution: We first find the vector \vec{v} in the direction from P to Q , i.e.,

$$\vec{v} = Q - P = \begin{pmatrix} 3 \\ 6 \\ 4 \end{pmatrix} - \begin{pmatrix} 2 \\ 3 \\ 2 \end{pmatrix} = \begin{pmatrix} 1 \\ 3 \\ 2 \end{pmatrix}.$$

To find the unit vector \vec{u} we need to normalize \vec{v} . We have

$$\|\vec{v}\| = \sqrt{1 + 9 + 4} = \sqrt{14},$$

and therefore

$$\vec{u} = \frac{\vec{v}}{\|\vec{v}\|} = \frac{1}{\sqrt{14}} \cdot \begin{pmatrix} 1 \\ 3 \\ 2 \end{pmatrix}.$$

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Table of Contents My Math Lab Math 209 Answer Key

1. Understanding the eBook My Math Lab Math 209 Answer Key
 - The Rise of Digital Reading My Math Lab Math 209 Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying My Math Lab Math 209 Answer 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 My Math Lab Math 209 Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from My Math Lab Math 209 Answer Key
 - Personalized Recommendations
 - My Math Lab Math 209 Answer Key User Reviews and Ratings
 - My Math Lab Math 209 Answer Key and Bestseller Lists

5. Accessing My Math Lab Math 209 Answer Key Free and Paid eBooks
 - My Math Lab Math 209 Answer Key Public Domain eBooks
 - My Math Lab Math 209 Answer Key eBook Subscription Services
 - My Math Lab Math 209 Answer Key Budget-Friendly Options
6. Navigating My Math Lab Math 209 Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - My Math Lab Math 209 Answer Key Compatibility with Devices
 - My Math Lab Math 209 Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of My Math Lab Math 209 Answer Key
 - Highlighting and Note-Taking My Math Lab Math 209 Answer Key
 - Interactive Elements My Math Lab Math 209 Answer Key
8. Staying Engaged with My Math Lab Math 209 Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers My Math Lab Math 209 Answer Key
9. Balancing eBooks and Physical Books My Math Lab Math 209 Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection My Math Lab Math 209 Answer Key
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine My Math Lab Math 209 Answer Key
 - Setting Reading Goals My Math Lab Math 209 Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of My Math Lab Math 209 Answer Key
 - Fact-Checking eBook Content of My Math Lab Math 209 Answer 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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