

Exercises: Double and Triple Integrals
Solutions
Math 13, Spring 2010

1. Consider the iterated integral

$$\int_0^1 \int_0^{1-x^2} \int_0^{1-x} f(x, y, z) dy dz dx.$$

(a) Rewrite this integral as an equivalent iterated integral in the order $dy dx dz$.

(b) Rewrite the integral in the order $dz dx dy$.

Solution. The triple integral is an integral over the solid W in \mathbb{R}^3 that consists of all points (x, y, z) with

$$\begin{aligned} 0 &\leq x \leq 1 \\ 0 &\leq z \leq 1 - x^2 \\ 0 &\leq y \leq 1 - x. \end{aligned}$$

To obtain the $dy dx dz$ integral we only need to change the order of the two outer integrals, which involves studying the “shadow” of W as a region D in the xz -plane. This region D consists of points (x, z) with

$$\begin{aligned} 0 &\leq x \leq 1 \\ 0 &\leq z \leq 1 - x^2. \end{aligned}$$

If you draw a diagram of this region, you see that it can also be described as

$$\begin{aligned} 0 &\leq z \leq 1 \\ 0 &\leq x \leq \sqrt{1-z}. \end{aligned}$$

This is sufficient to re-write the triple integral as

$$\int_0^1 \int_0^{\sqrt{1-z}} \int_0^{1-x} f(x, y, z) dy dx dz.$$

In order to get the $dz dx dy$ integral we need to analyze the three dimensional solid W , by sketching a diagram. Because the two outer integrals are $dx dy$, we then need to project W to find its shadow onto the xy -plane. It turns out that this shadow in the xy plane is the region bounded by the triangle with vertices $(0,0)$, $(1,0)$ and $(0,1)$.

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Table of Contents Exercises Double And Triple Integrals Solutions Math 13

1. Understanding the eBook Exercises Double And Triple Integrals Solutions Math 13
 - The Rise of Digital Reading Exercises Double And Triple Integrals Solutions Math 13
 - Advantages of eBooks Over Traditional Books
2. Identifying Exercises Double And Triple Integrals Solutions Math 13
 - 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 Exercises Double And Triple Integrals Solutions Math 13
 - User-Friendly Interface
4. Exploring eBook Recommendations from Exercises Double And Triple Integrals Solutions Math 13
 - Personalized Recommendations
 - Exercises Double And Triple Integrals Solutions Math 13 User Reviews and Ratings
 - Exercises Double And Triple Integrals Solutions Math 13 and Bestseller Lists

5. Accessing Exercises Double And Triple Integrals Solutions Math 13 Free and Paid eBooks
 - Exercises Double And Triple Integrals Solutions Math 13 Public Domain eBooks
 - Exercises Double And Triple Integrals Solutions Math 13 eBook Subscription Services
 - Exercises Double And Triple Integrals Solutions Math 13 Budget-Friendly Options
6. Navigating Exercises Double And Triple Integrals Solutions Math 13 eBook Formats
 - ePub, PDF, MOBI, and More
 - Exercises Double And Triple Integrals Solutions Math 13 Compatibility with Devices
 - Exercises Double And Triple Integrals Solutions Math 13 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Exercises Double And Triple Integrals Solutions Math 13
 - Highlighting and Note-Taking Exercises Double And Triple Integrals Solutions Math 13
 - Interactive Elements Exercises Double And Triple Integrals Solutions Math 13
8. Staying Engaged with Exercises Double And Triple Integrals Solutions Math 13
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Exercises Double And Triple Integrals Solutions Math 13
9. Balancing eBooks and Physical Books Exercises Double And Triple Integrals Solutions Math 13
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Exercises Double And Triple Integrals Solutions Math 13
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Exercises Double And Triple Integrals Solutions Math 13
 - Setting Reading Goals Exercises Double And Triple Integrals Solutions Math 13
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Exercises Double And Triple Integrals Solutions Math 13
 - Fact-Checking eBook Content of Exercises Double And Triple Integrals Solutions Math 13
 - 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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